

PARTS MANUAL

**CHALLENGER
H135-155XL
(F006)**

CUSTOMER EDITION

HYSTER

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ABBREVIATIONS QUICK REFERENCE SHEET

Listed below are abbreviations used in parts manuals to denote the following expressions:

TERM	DEFINITION	TERM	DEFINITION
Amp	Amperes	FRE	Freezer Environment
AR	As Required	in.	inches
BDI	Battery Discharge Indicators	LPG	Liquefied Petroleum Gas
BWI	Brush Wear Indicator	MAP	Manifold Absolute Pressure
CE	Communicator End	mm	millimeters
CRE	Corrosive Environment	MSTS	Microprocessor Spark Timing System
D/B	Date Break	NPT	National Pipe Threads
dbA	Decibel "A" Scale	O/S	Oversize
DE	Drive End	PTO	Power Take Off
ECH	Empty Container Handler	RPM	Revolutions per Minute
ECH-3	Empty Container Handler - 3 High Stacking	S/N	Serial Number
ECH-4	Empty Container Handler - 4 High Stacking	TMM	Truck Management Module
ECH-5	Empty Container Handler - 5 High Stacking	UL Type D	Diesel-Powered Safety Rating
ECH-6	Empty Container Handler - 6 High Stacking	UL Type DS	Diesel-Powered Safety Rating
ECH-7	Empty Container Handler - 7 High Stacking	UL Type E	Battery-Powered Safety Rating
ECM	Electronic Control Module	UL Type EE	Battery-Powered Safety Rating
ECN	Engineering Change Notice	UL Type ES	Battery-Powered Safety Rating
EEPROM	Electrically Erasable Programmable Read Only Memory	UL Type G	Gasoline-Powered Safety Rating
EPA	US Environmental Protection Agency	UL Type GS	Gasoline-Powered Safety Rating
EPROM	Electrically Programmable Read Only Memory	UL Type LP	Gas-Powered Safety Rating
		UL Type LPS	LP Gas-Powered Safety Rating
		U/S	Undersize
		UL	Underwriters Laboratory
		V	Volts

HOW TO USE THE ILLUSTRATED PARTS MANUAL

This parts manual describes and illustrates assemblies, subassemblies, and detail parts needed for service replacement.

The different constructions are indicated by keys and footnotes. The callouts correspond to descriptions found on the next page.

HYSTER UNIT CODE D001 NORTH AMERICA 06/2001

TABLE OF CONTENTS

DESCRIPTION	PAGE
AIR INTAKE AND FILTER DIESEL (⇒ D/B 11/96)	3-22
AIR INTAKE AND FILTER DIESEL (D/B 11/96 ⇒)	
AIR INTAKE AND FILTER GASOLINE AND LPG	
ALTERNATOR GASOLINE, LPG, AND DIESEL	
ALTERNATOR TYPES GS, LPS, AND DS	
AUXILIARY FUNCTION TUBE TWO AND THREE STAGE FULL P	

SECTION 13 NUMERICAL INDEX

PART NO.	PAGE	ITEM NO.	PART NO.	PAGE	ITEM NO.	PART NO.	PAGE	ITEM NO.	PART NO.	PAGE	ITEM NO.
142	3-4	19	10-13	25	11-27	29	12-31	12	16719	3-36	5
12445	3-32	19	10-17	6	11-31	25	16751	3-16	16751	3-16	27
	3-34	1	10-27	11	11-32	37	16849	3-34	16849	3-34	21
			11-11	6	8-4	29	16863	3-36	16863	3-36	20
			12-21	11	8-4	45	16865	3-26	16865	3-26	17
			14	13	8-8	34	16882	3-6	16882	3-6	18
			12	6	9-7	9		4-27		4-27	41
			3	17	9-7	19		9-11		9-11	27
			9	10	9-11	17		10-10		10-10	36
			23	46	10-9	21		10-13		10-13	32
			27	46	10-9	28		11-7		11-7	24
			26	14	10-13	16		11-9		11-9	17
			28	14	11-7	19					
			50	14							

SECTIONS

- 1
- 2
- 3
- 4
- 5 BRAKE/ACC
- 6
- 7 MAST-TWO STAGE
- 8 MAST-THREE STAGE
- 9 MAST-TWO STAGE
- 10
- 11

FRAME

ELECTRICAL SYSTEM

TRANSMISSION HOUSING S/N D001H-2628

KEY:
A: Diesel
B: Gasoline and LPG

ITEM	PART NO.	DESCRIPTION	QTY
	2022547	Transmission	1
	2023329	Transmission	1
1	2021670	Case	2
2	2023418	Bearing Cap	4
3	296426	Washer	4
4	293991	Bolt	1
5	2021390	Cover	2
6	1371656	Cotter Pin	2
7	2021915	O-Ring	4
8	2021675	Plug	1
9	2021336	Housing	4
10	287860	Pin	22
11	292682	Lockwasher	39
12	292682	Hydraulic Pump	1
13		⇒ Figure 5-3	1
14	2021345	Gasket	8
15	214364	Bolt	8
16	296418	Washer	1
17	2021388	Temperature Switch	1
18	2021389	Breather	9
19	2021383	Dipstick	9
20	292515	Bolt	2
21	136692	Nut	3
22	292527	Cap screw	3
23	292531	Lockwasher	4
24	292583	Bolt	4
25	293637	Washer	1
26	296420	Washer	1
	996403	Transmission Kit (Includes Item 7)	1
	996405	Transmission Kit (Includes Item 14)	1

This Parts Manual is divided into 11 major sections which are listed above. Quick reference can be made by placing the right thumb on the tab of the desired section, bending the pages to the corresponding tab.

See Service Manual for service procedures.

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5-15

HP990004

HOW TO FIND THE DESIRED PART NUMBER

WHEN THE PART NUMBER AND THE NEXT HIGHER ASSEMBLY IS NOT KNOWN:

1. Determine the function and application of the part required. Turn to the Sections Page. Choose the general area of reference most likely to include the part.
2. Turn to the section you chose. Use the Section Table of Contents to determine the assembly which would normally contain the part required. Then locate the part on the assembly breakdown page.

WHEN THE PART NUMBER IS NOT KNOWN AND THE NEXT HIGHER ASSEMBLY IS KNOWN:

3. Determine the assembly the required part is used on. Turn to the Table of Contents (Page i).
4. Locate the assembly the required part is used on and turn to the page indicated for that assembly. Then locate the part on the assembly breakdown page.

WHEN THE PART NUMBER IS KNOWN:

5. Use the Numerical Index (Page 12-1) to find the part number. Turn to the page listed and locate the part as indicated by the item number.

GENERAL:

The assembly breakdowns include part numbers, descriptions, quantities required, keys and footnotes to help in selecting correct parts.

6. Parts Supersession Information. Part numbers that have this history will be displayed in the parts list in the order that they were superseded (from oldest to newest). The superseded part numbers will be shown with a line through them.

Five periods in the PART NO. column (.) indicate that the part is either *Not Serviced Separately* or there is a reference to another figure. A figure reference is denoted by a pointing hand followed by a figure number in the DESCRIPTION column (☞ Figure 10)

7. Keys are used to show two or more similar assemblies, RH and LH assembly parts, etc. Select the appropriate key, "A", "B", "C", "D", or "E" and the corresponding quantity column to find the required parts. Two periods in the QTY column (..) indicate that the part is not used for that assembly.
8. Indented descriptions under the DESCRIPTION column are used to indicate assemblies and

subparts of assemblies. In the example on the previous page, *BEARING CAP* (Item 2) is a subpart of the major assembly *CASE*.

9. Quantities shown are for one assembly. The quantities of the subpart *BEARING CAP* are indicated as two and two. This means two per *CASE* assembly.
10. Serial number breaks identify the most current parts information and are shown as follows:
→ **S/N D001H2628**
Indicates last serial number affected.
S/N D001H2629 →
Indicates the first serial number affected.
S/N D001H1553 ↔ S/N D001H3291
Indicates a range of serial numbers affected.

ECN numbers for pending serial numbers are shown to allow for the inclusion of the most current parts information and are identified as follows:

- **S/N Pending Per ECN 63243**
Indicates a pending serial number for last unit affected.
S/N Pending Per ECN 63243 →
Indicates a pending serial number for first unit affected.

Date breaks are used to indicate when a change occurred but a subsequent serial number break was not recorded. This is an arbitrary date usually based on the ECN release and are identified as follows:

- **D/B 3/00**
Indicates that a change occurred sometime within that month for the item affected.
D/B 3/00 →
Indicates that a change occurred sometime within that month for the item affected.
D/B 3/00 ↔ D/B 4/00
Indicates a range of production dates of the item affected.

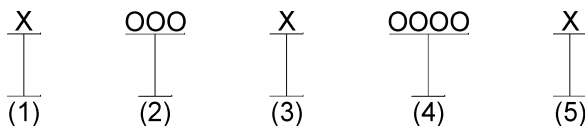
Contact your local dealer for Hyster lift trucks for serial number information for items with a ECN or a date break.

ORDERING PARTS:

When ordering replacement parts, give the unit serial number, part number, name of part and quantity required.

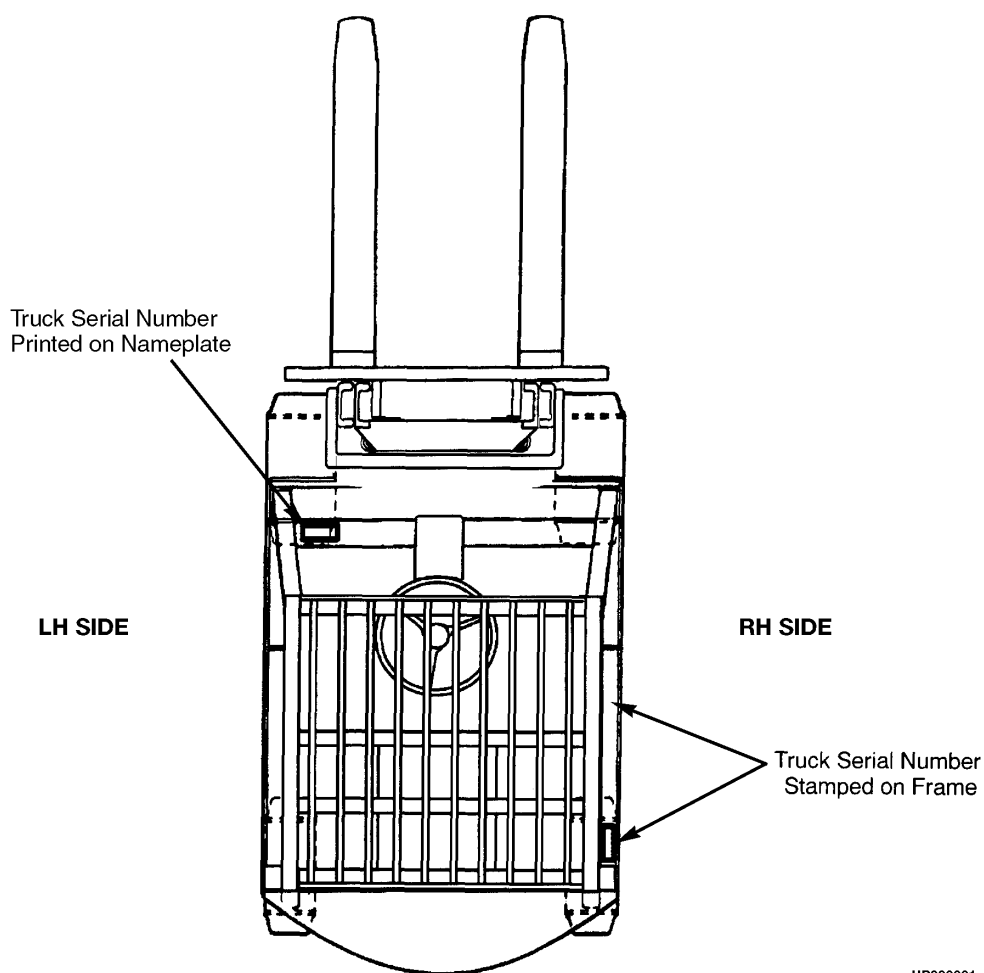
For any further information on parts, service, or ordering, consult your local dealer for Hyster lift trucks.

IDENTIFICATION OF TRUCK SERIAL NUMBERS



- (1) and (2) The first letter and three numbers indicate the truck unit code.
- (3) The second letter indicates the plant of manufacture.
- (4) The four or five digit number indicates the production sequence number of the truck.
- (5) The final letter indicates the year of manufacture starting with "A" in 1957, 1980, and 2003.
The letters "I", "O", and "Q" will not be used.

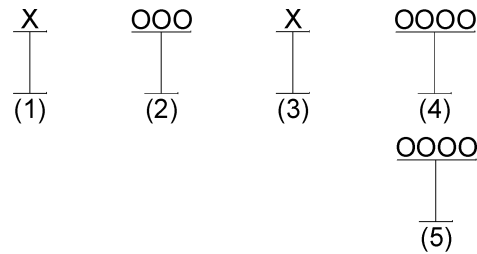
For pending serial numbers contact your local dealer for Hyster lift trucks.



HP990001

Parts referred to in this book as right or left hand parts are in accordance with the illustration above.

IDENTIFICATION OF MAST SERIAL NUMBERS



- (1) and (2) The first letter and number indicates the mast unit code.
- (3) The second letter indicates the plant of manufacture.
- (4) The four or five digit number indicates the production sequence number of the mast.
- (5) Carriage travel in millimeters stamped just below the serial number.

Mast Group identification consists of mast unit code (1) and (2) plus carriage travel (5).

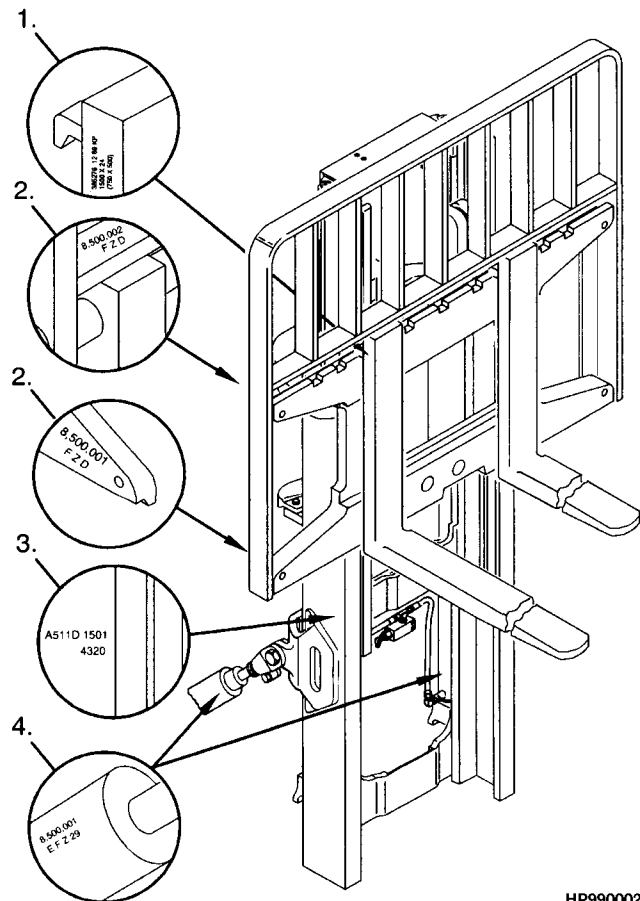
For pending production sequence numbers contact your local dealer for Hyster lift trucks.

LIFT EQUIPMENT IDENTIFICATION

1. Fork part number, capacity rating, plant code letter, and date of manufacture are stamped approximately six inches below the top of most forks.
2. The carriage group number is stamped on the right hand side of the top crossmember (pin type) or on the back of the right hand end of the bottom crossmember (hook type). A date code has two letters in line with or below the carriage group number.
3. The mast identification number has a unit code, a letter indicating the plant of manufacture, and a serial number. Underneath the production sequence number is a four digit number that indicates the carriage travel in millimeters.
4. Tilt and lift cylinder group numbers are stamped on the cylinder shell.

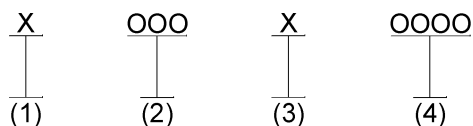
Always refer to the group, serial, or part number when ordering service parts.

Modification of masts and carriages by SPED (Special Products Engineering Department) are identified by a model prefix code beginning with the letter "S". contact your dealer for Hyster lift trucks for information on these assemblies.

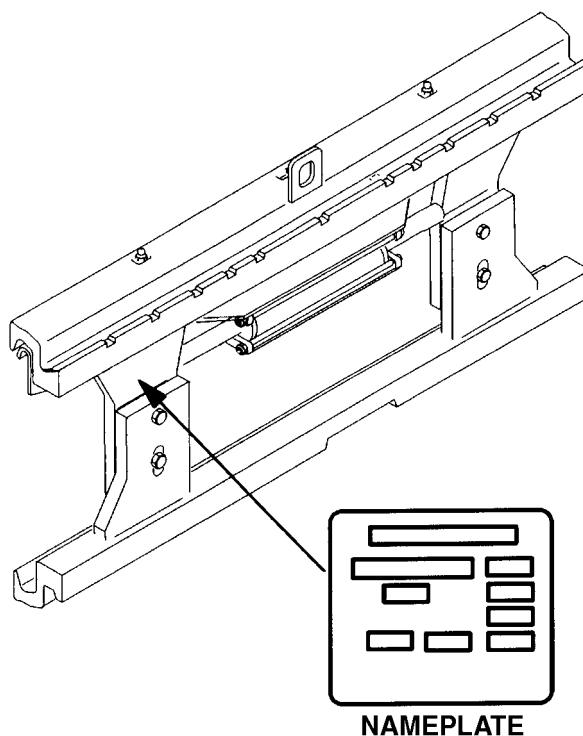


HP990002

IDENTIFICATION OF ATTACHMENT AND SIDE-SHIFT CARRIAGE SERIAL NUMBERS



- (1) and (2) The first letter and three numbers indicate the attachment unit code.
(3) The second letter indicates the plant of manufacture.
(4) The four or five digit number indicates the production sequence number.
For pending production sequence numbers contact your local dealer for Hyster lift trucks.



HP990003

Side-shift carriages and attachments have nameplates. Use the serial number found on the nameplate to identify the attachment.

Always refer to the group, serial, or part number when ordering service parts.

Modifications of attachments and side-shift carriages by SPED (Special Products Engineering Department) are identified by a model prefix code beginning with the letter "S". Contact your dealer for Hyster lift trucks for information on these assemblies.

PUBLICATIONS

Every new lift truck is provided with an OPERATING MANUAL. This manual has information that the operator must know for inspection and operation of the lift truck.

SERVICE MAINTENANCE MANUALS, which provide service and overhaul procedures, and PARTS

MANUALS with complete replacement part identification, are available at a nominal fee from your Hyster dealer to assist users in effectively maintaining Hyster lift trucks in a safe, useful condition. See the list below for information on ordering specific publications for this model lift truck.

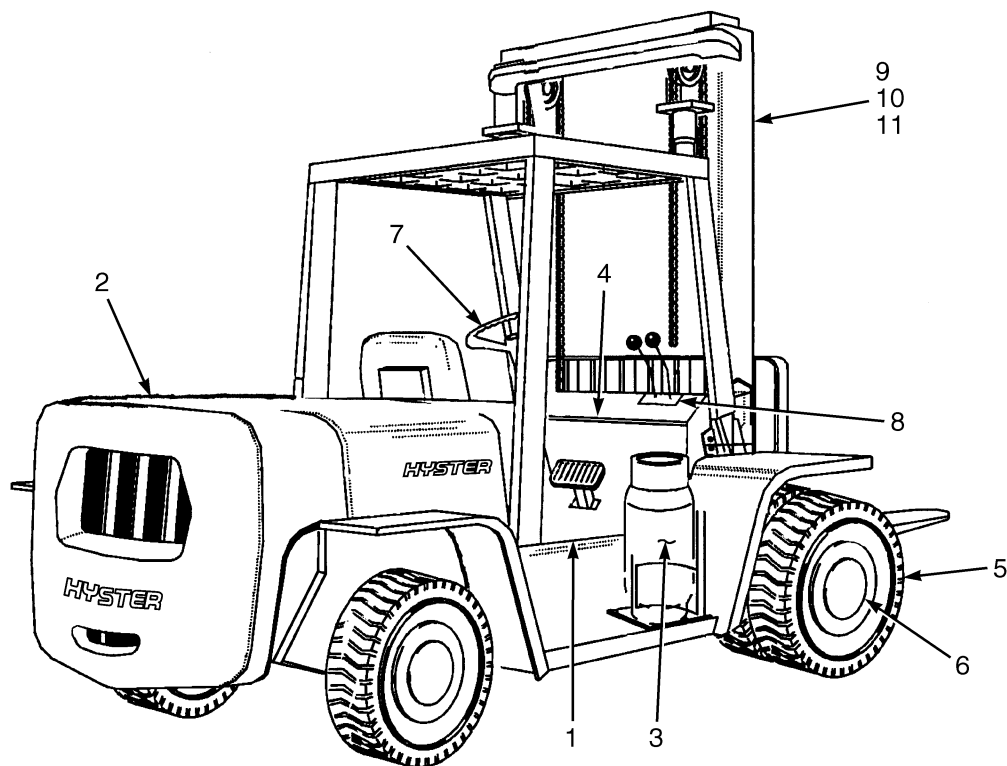
PUBLICATION	HYSTER PART NUMBER
Operating Manual.....	897364
Service Manual (Complete).....	897137
Parts Manual.....	852110

1

FRAME

SECTION 1
FRAME

DESCRIPTION	PAGE
COUNTERWEIGHT	1-28
COWL AND FLOOR PLATES	1-16
FULL SUSPENSION SEAT	
SHEET 1 OF 2 (S/N F006D06224Y →)	1-8
SHEET 2 OF 2 (S/N F006D06224Y →)	1-12
GENERAL TRUCK	1-2
HOOD	1-14
LABELS AND PAINT	1-20
LOAD BACKREST EXTENSION	1-30
OVERHEAD GUARD	
→ S/N F006D06223Y	1-24
S/N F006D06224Y →	1-26
SEMI-SUSPENSION SEAT	1-4

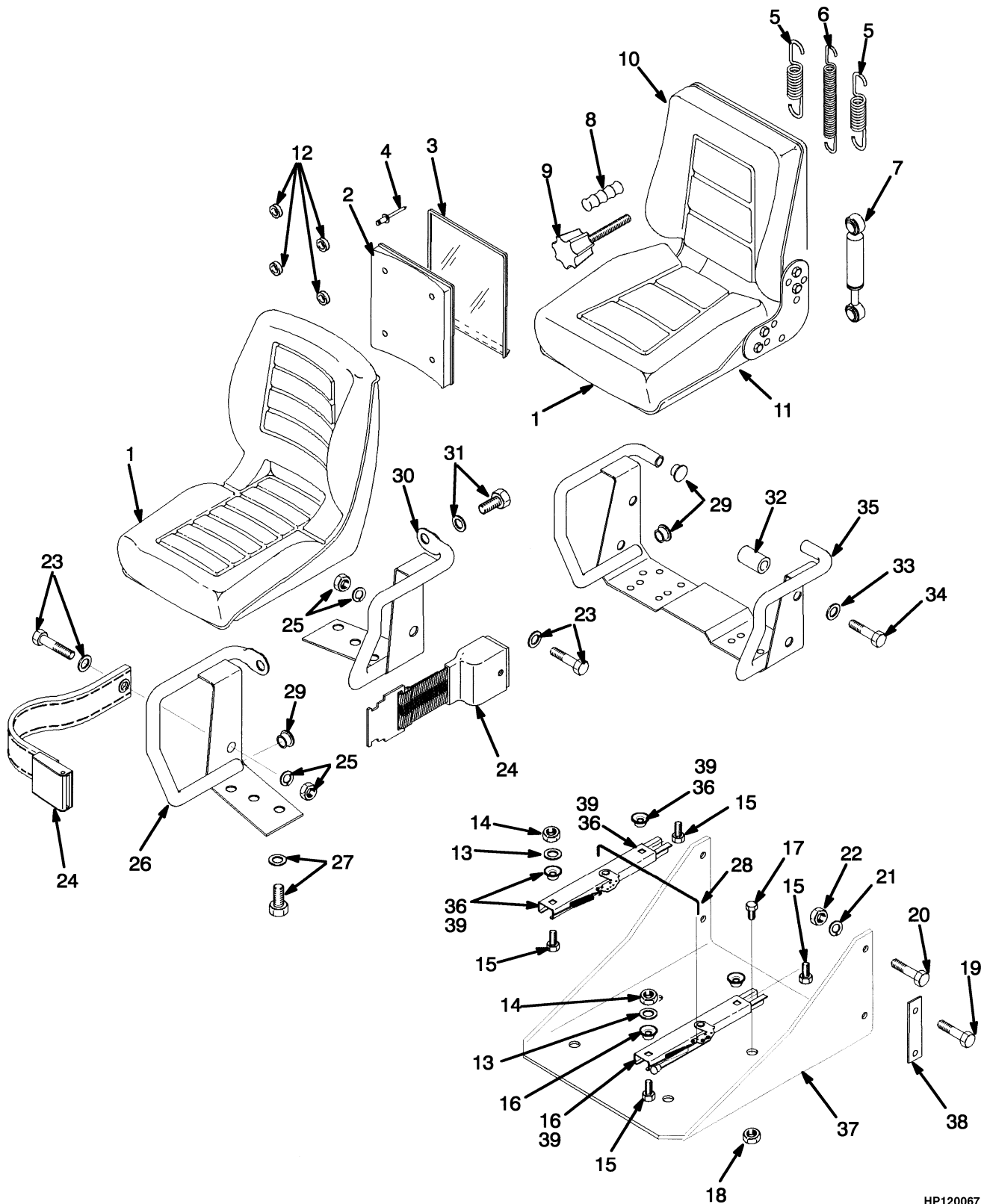
GENERAL TRUCK (FIGURE 1-1)

HP260027

GENERAL TRUCK

ITEM	PART NO.	DESCRIPTION	QTY
1		Frame (☞Figure 1-6).....	1
2		Engine Assembly (☞Figure 2-17).....	1
3		Fuel Assembly	1
4		Electrical System (☞Figure 4-1).....	1
5		Transmission (☞Figure 5-7).....	1
6		Brake System (☞Figure 7-7).....	1
7		Steering System (☞Figure 6-6).....	1
8		Hydraulic System (☞Figure 8-3).....	1
9		Mast-Two Stage Limited Free-Lift (☞Figure 9-1).....	1
10		Mast-Three Stage Full Free-Lift (☞Figure 10-1).....	1
11		Optional Equipment (☞Figure 11-2).....	1
12		Numerical Index	1

SEMI-SUSPENSION SEAT (FIGURE 1-2)



HP120067

SEMI-SUSPENSION SEAT**KEY:****A: Standard Seat****B: Suspension Seat**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	377901	Seat-Non Suspension (Vinyl)	1	..
1	377908	Seat-Non Suspension (Fabric)	1	..
1	1345826	Seat-Semi Suspension	..	1
2	335988	Information Case (Information Case)	1	..
2	335989	Information Case (Information Case)	..	1
3	335991	Cover (Information Case) (Information Case)	1	1
4	222029	Rivet	4	..
4	222030	Rivet	..	4
5	326364	Spring	..	2
6	326363	Support	..	1
7	326978	Shock Absorber	..	1
8	326362	Knob	..	1
9	326365	Spindle (Adjuster)	..	1
10	326361	Back Cushion (Vinyl)	..	1
11	326360	Bottom Cushion	..	1
12	1326337	Spacer	..	4
13	221733	Washer	2	..
14	145639	Locknut	..	4
15	18727	Screw	..	4
15	364914	Capscrew	4	..
16	335553	Seat Rail	1	1
16	204114	Spacer	4	4
17	16836	Capscrew	4	4
18	145639	Locknut	4	4
19	292517	Capscrew	4	4
20	287854	Capscrew	4	4
21	388049			
	292682	Lockwasher	4	4
22	136692	Nut	4	4
23	379199	Capscrew	2	2
23	379697	Washer	2	2
24	1374750	Seat Belt	1	1
25	379697	Washer	4	4
25	379698	Nut	4	4
26	364807	Hip Restraint (RH)	1	..
27	18515	Washer	4	..
27	18727	Screw	4	..
28	f 1300107	Rod	1	1
29	364854	Plug	2	4
30	364808	Hip Restraint (LH)	1	..
31	379197	Capscrew	2	..
31	379198	Washer	2	..
32	364848	Spacer	..	2
33	379675	Washer	..	2
34	379674	Capscrew	..	2
35	364847	Hip Restraint	..	1

SEMI-SUSPENSION SEAT

KEY:

A: Standard Seat

B: Suspension Seat

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
36	c 335556	Seat Rail	1	1
36	204114	Spacer	4	4
37	ad 1358710	Seat Pan	1	1
37	ae 1461088	Seat Pan	1	1
37	ag 1479677	Seat Pan	1	1
37	bd 1358736	Seat Pan	1	1
37	be 1461089	Seat Pan	1	1
37	bg 1479678	Seat Pan	1	1
38	385085	Spacer	2	2
39	f 383116	Seat Rail	1	1

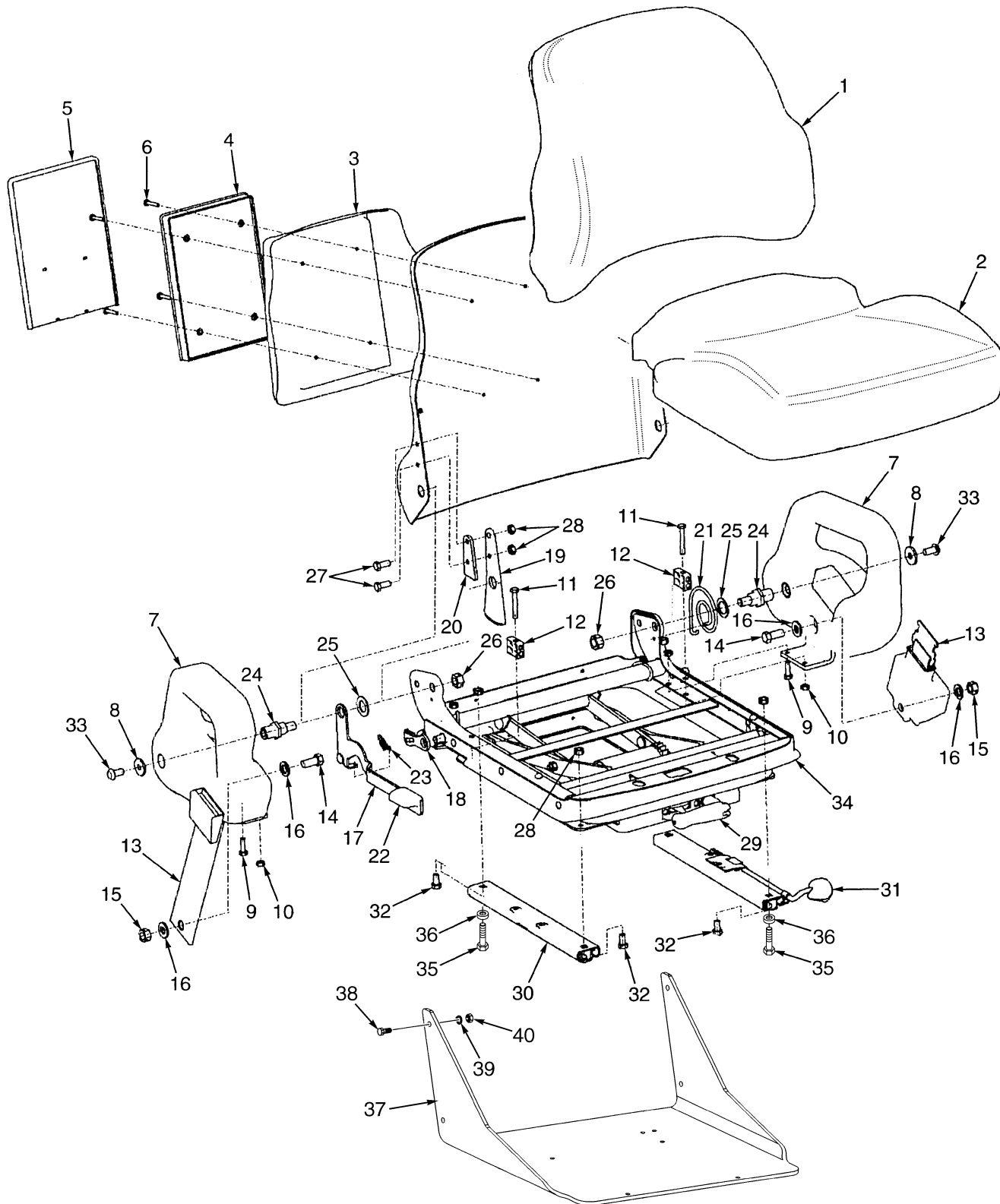
FOOTNOTES:

a With Cab**b** Without Cab**c** → S/N F006A03202**d** → S/N F006D65319**e** S/N F006D65320 ↔ S/N F006D06223Y**f** S/N F006A03203 →**g** S/N F006D06224Y →

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

FULL SUSPENSION SEAT (FIGURE 1-3) SHEET 1 OF 2 (S/N F006D06224Y →)



HP120718

FULL SUSPENSION SEAT
SHEET 1 OF 2 (S/N F006D06224Y →)

ITEM	PART NO.	DESCRIPTION	QTY
	1468473	Seat-Full Suspension (Cloth)	1
	1468472	Seat-Full Suspension (Vinyl)	1
1	1470153	Seat Cushion (Back Cushion) (Cloth)	1
1	1470152	Seat Cushion (Back Cushion) (Vinyl)	1
2	1494077	Seat Cushion (Cloth)	1
2	1494076	Seat Cushion (Vinyl)	1
2	1467514	Switch (Seat)	1
2	1467515	Wire Harness	1
3		Riser	1
4		Box	1
5		Cover	1
6		Screw	4
7		Hip Restraint (RH)	1
7		Hip Restraint (LH)	1
8		Washer	2
9		Bolt	2
10		Nut	4
11		Bolt	2
12		Block	2
13		Seat Belt	1
14		Bolt	2
15		Nut	2
16		Washer	4
17		Handle	1
18		Latch	1
19		Bracket	1
20		Spacer	1
21		Spring	1
22		Knob	1
23		Spring Extension	1
24		Pivot	2
25		Washer	2
26		Nut	2
27		Bolt	2
28		Nut	6
29	1470163	Kit-Weight Adjuster	1
30		Slide (RH)	1
31		Slide (LH)	1
32		Bolt	4
33		Screw	2
34	1470159	Kit-Seat Suspension	1
35	15175	Lockwasher	4
36	145639	Locknut	4
37	1479677	Seat Pan (With Cab)	1
37	1479678	Seat Pan (With Overhead Guard)	1
38	287854	Capscrew	4
39	388049	Lockwasher	4
40	136692	Nut	4

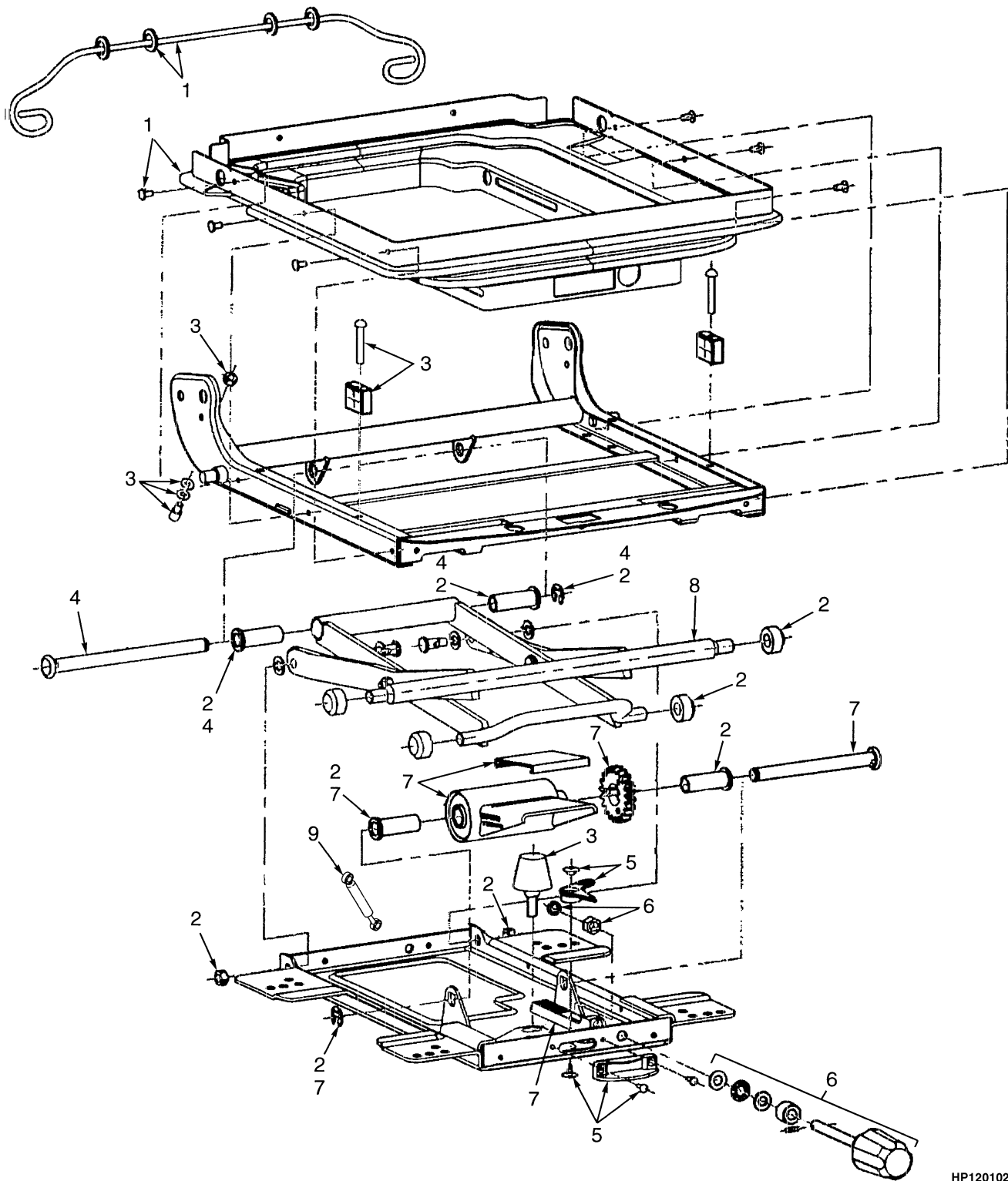
FULL SUSPENSION SEAT
SHEET 1 OF 2 (S/N F006D06224Y →)

ITEM	PART NO.	DESCRIPTION	QTY
	1470155	Information Case (Kit)	1
	1470157	Hip Restraint (LH)	1
	1470156	Hip Restraint (RH)	1
	1470158	Kit-Seat Belt	1
	1470161	Kit-Seat Rail	1
	1470164	Kit-Recliner	1

NOTES

[illegible]

FULL SUSPENSION SEAT (FIGURE 1-4) SHEET 2 OF 2 (S/N F006D06224Y →)

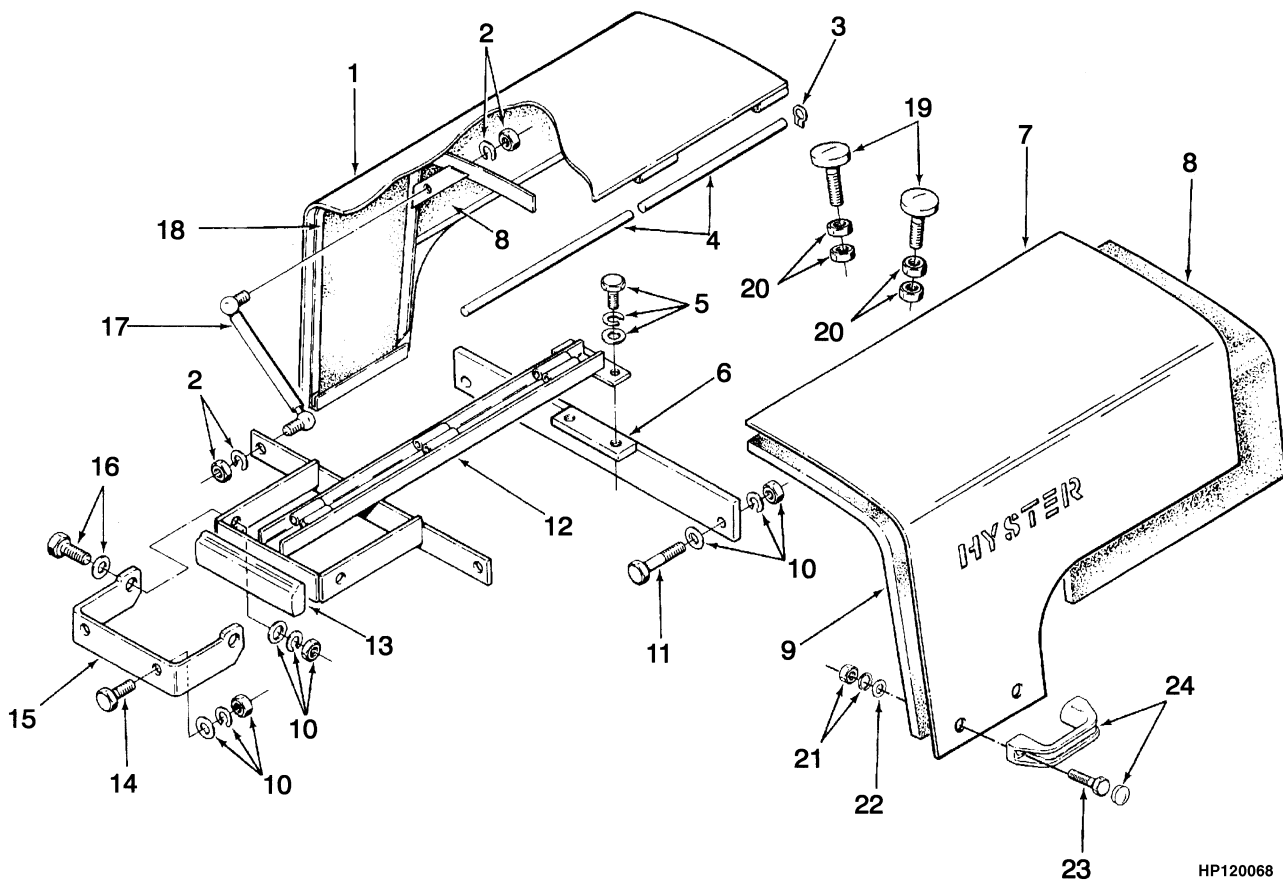


HP120102

FULL SUSPENSION SEAT
SHEET 2 OF 2 (S/N F006D06224Y →)

ITEM	PART NO.	DESCRIPTION	QTY
	1468473	Seat-Full Suspension (Cloth)	1
	1468472	Seat-Full Suspension (Vinyl)	1
1	1467523	Kit-Boot	1
2	1467524	Kit-Bearing	1
3	1467525	Kit-Bumper	1
4	1467526	Kit-Shaft and Bearing	1
5	1467527	Kit-Weight Adjuster Indicator	1
6	1467531	Knob	1
7	1467529	Kit-Spring	1
8	1470160	Scissor	1
9	1483828	Kit-Gas Spring (Mounted to the rear of the seat)	1

HOOD (FIGURE 1-5)



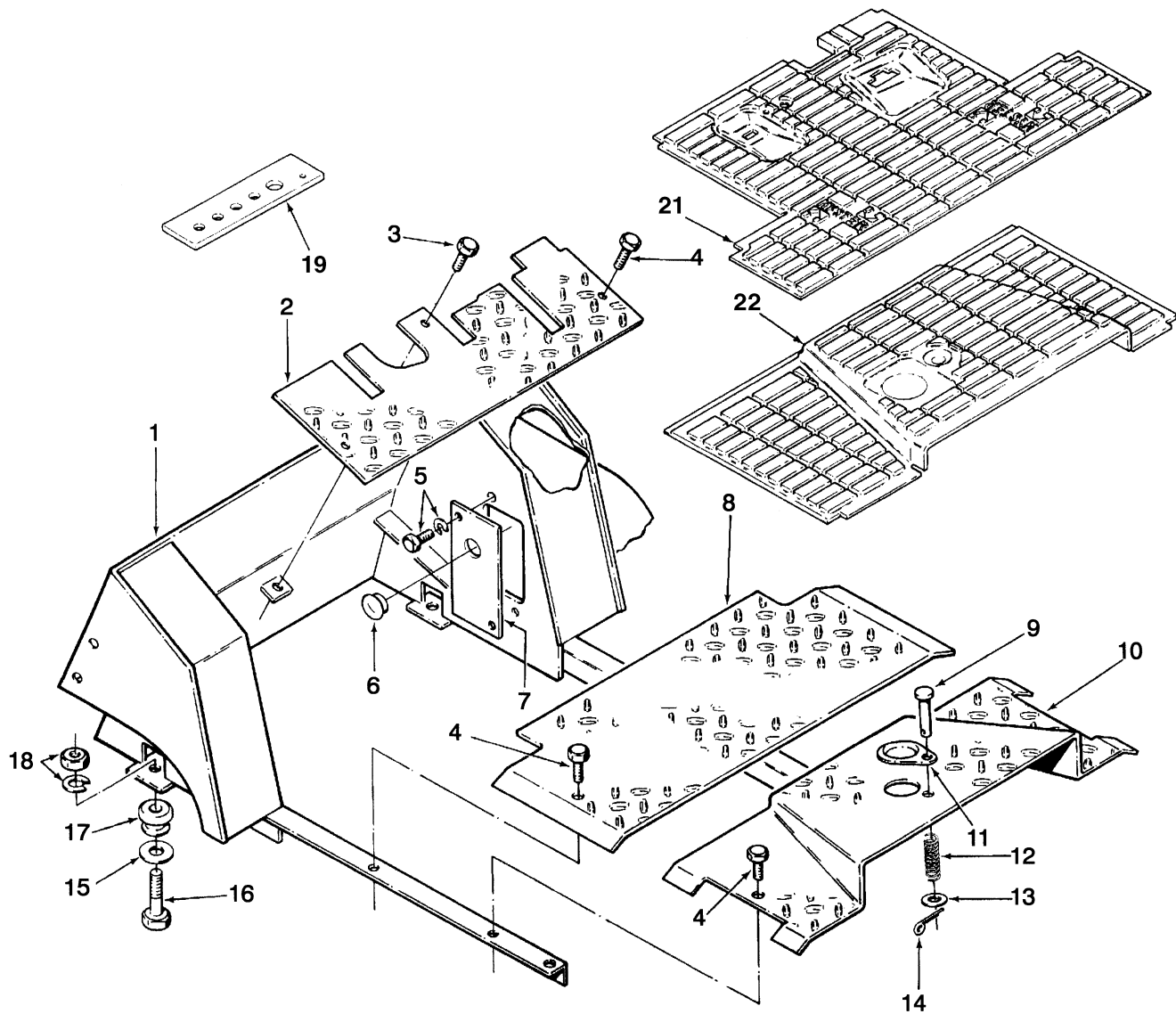
HP120068

HOOD

ITEM	PART NO.	DESCRIPTION	QTY
1	367260	Hood (RH)	1
2	292681	Lockwasher	4
2	1569425	Nut	4
3	367228	Retaining Ring	4
4	367227	Rod	2
5	136985	Capscrew	2
5	388049		
	292682	Lockwasher	2
5	296421	Washer	2
6	367233	Crossmember	1
7	367246	Hood (LH)	1
8	377624	Hood Liner	2
9	377622	Hood Liner (LH)	1
10	136692	Nut	6
10	388049		
	292682	Lockwasher	6
10	296421	Washer	6
11	292519	Capscrew	2
12	367235	Hose Guide	1
13	261165	Foam Tape	AR
14	136985	Capscrew	2
15	a 367236	Bracket	1
15	bc 377350	Bracket	1
16	a 136985	Capscrew	2
16	bc 287860	Capscrew	2
16	296421	Washer	2
17	353021	Gas Spring	2
18	377623	Hood Liner (RH)	1
19	367251	Screw	6
20	15055	Nut	10
21	136687	Nut	4
21	292680	Washer	4
22	320156	Washer	4
23	292501	Capscrew	4
24	362030	Handle	2

FOOTNOTES:**a** → S/N F006A03039**c** S/N F006D01501 →**b** S/N F006A03040 →

COWL AND FLOOR PLATES (FIGURE 1-6)



BP120058

COWL AND FLOOR PLATES**KEY:****A: Oil Clutch****B: Powershift**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	c 344377	Cowl	1	1
1	ef 1346710	Cowl	1	1
2	c 357312	Floorplate	1	1
2	f 1466348	Floorplate	1	1
3	329067	Screw	1	1
4	329067	Screw	6	6
5	136681	Capscrew	4	4
5	292681	Lockwasher	4	4
6	374002	Plug	2	2
7	342980	Plate	2	2
8	357276	Floorplate	1	1
9	b 177590	Pin	..	1
10	b 357269	Floorplate	1	..
10	b 357273	Floorplate	..	1
10	a 369146	Floorplate	..	1
10	a 370283	Floorplate	1	..
11	b 313815	Plate	..	1
12	b 137122	Spring	..	1
13	b 320157	Washer	..	2
14	b 15212	Cotter Pin	..	1
15	136692	Nut	2	2
15	136985	Capscrew	2	2
15	388049			
	292682	Lockwasher (RH)	1	1
15	296361	Washer (LH)	2	2
15	320156	Washer	2	2
16	292533	Capscrew	2	2
16	300939	Washer	2	2
17	129962	Motor Mount	2	2
18	1318914			
	216877	Nut	2	2
18	292683	Lockwasher	2	2
19	d 370276	Seal	1	1
19	g 1479752	Seal	1	1
20	a 370278	Seal (Not Illustrated)	1	1
21	ef 1312722	Floormat (Front)	1	1
21	369528	Floormat (Front)	1	1
22	a 369525	Floormat (Rear)	1	1
22	b 374004	Floormat (Rear)	1	1
	379409	Kit-Noise Reduction	1	1

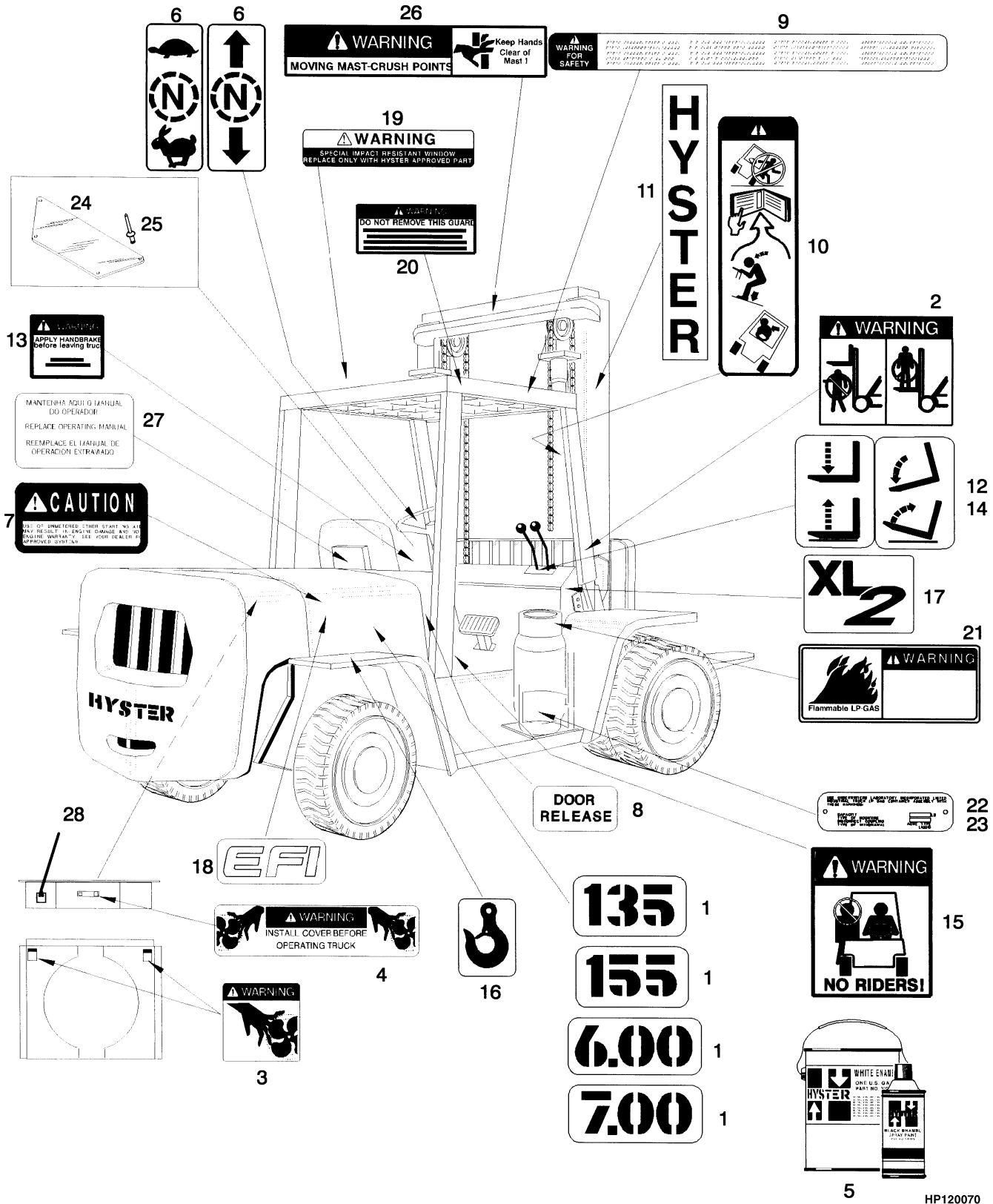
FOOTNOTES:

- a** With Cab
- b** Without Cab
- c** → S/N F006A03790
- d** → S/N F006D05627
- e** S/N F006A03791 →
- f** S/N F006D01501 →
- g** S/N F006D05628 →

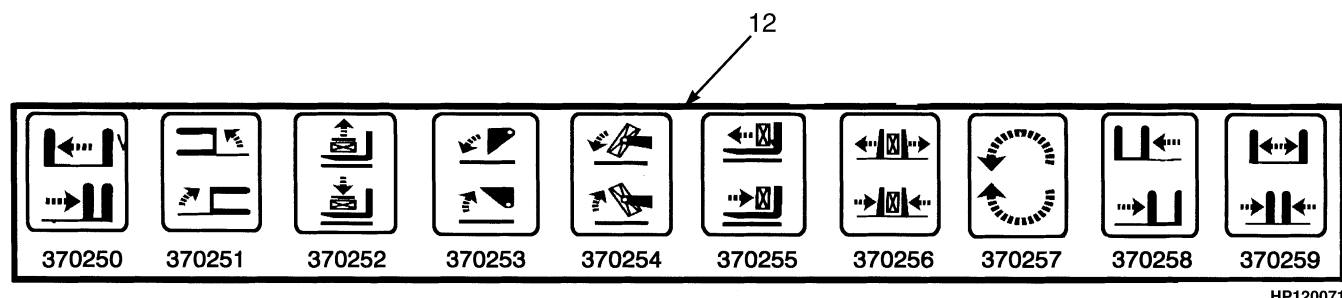
NOTES

[illegible]

LABELS AND PAINT (FIGURE 1-7)



HP120070



HP120071

LABELS AND PAINT

ITEM	PART NO.	DESCRIPTION	QTY
1	380333	Label (Model 135)	2
1	380334	Label (Model 155)	2
2	2075656	Label (Mast Warning)	2
3	1345939	Label (Fan Warning)	1
4	1325271	Label (Fan Warning)	1
5	1344901	Paint (Low Gloss Black) (Spray)	AR
5	1344902	Paint (Low Gloss Black) (One Gallon) (One Gallon)	AR
5	1345808	Paint (Yellow) (One Gallon) (One Gallon)	AR
5	1345809	Paint (Yellow) (Spray)	AR
5	1346270	Paint (Powder Black) (Spray) (Powershift)	AR
5	316844	Paint (Red) (Spray)	AR
5	317225	Paint (Yellow)	AR
5	317226	Paint (Yellow) (One Gallon)	AR
5	328626	Paint (Black)	AR
5	336593	Paint (Black Satin)	AR
5	336594	Paint (Black Satin) (One Gallon)	AR
6	d 309684	Label (Forward/Reverse) (Oil Clutch)	1
6	d 377619	Label (Gear Selection) (Powershift)	1
7	2034459	Label (Ether Warning)	1
8		Label (Door Release)	1
9	1335142	Label (Operator Warning)	1
10	1330917	Label (Operator Restraint)	2
11	cfh 1344131	Label (Hyster)	2
11	afh 1344132	Label (Hyster)	2
11	ce 369858	Label (Hyster)	2
11	ae 369859	Label (Hyster)	2
12	370250	Label (Auxiliary Function - Reach)	AR
12	370251	Label (Auxiliary Function - Swing)	AR
12	370252	Label (Auxiliary Function - Stabilizer)	AR
12	370253	Label (Auxiliary Function - Dump/Scoop)	AR
12	370254	Label (Auxiliary Function - Upender)	AR
12	370255	Label (Auxiliary Function - Push/Pull)	AR
12	370256	Label (Auxiliary Function - Clamp)	AR
12	370257	Label (Auxiliary Function - Rotate)	AR
12	370258	Label (Auxiliary Function - Side-Shift)	AR
12	370259	Label (Auxiliary Function - Fork Spreader)	AR
13	1335146	Label (Park Brake Warning)	1
14	369573	Label (Lift/Tilt)	1
15	1330920	Label (No Riders)	2
16	316448	Label (Lifting Eye) (Lifting Eye)	4
17	1346853	Label (XL2)	2

LABELS AND PAINT

ITEM	PART NO.	DESCRIPTION	QTY
18	gh 1345998	Label (EFI)	2
19	1308050	Label (Impact Resistant Window) (With Cab)	1
20	b	Label- Overhead Guard Impact Rating	1
21	1308623	Label (Flammable LPG)	1
22	1501259	Nameplate (LP Tank)	1
23	170658	Rivet	2
23	340044	Gripnail (Optional)	2
24	389694	Cover (Nameplate)	1
25	170658	Rivet	4
26	1330919	Label (Mast Warning)	1
27	1328205	Label (Replace Operator Manual)	1
28	1354165	Label (Antifreeze)	1
	996235	Kit-Label	1
29	893697	Label (Hyster Optional Counterweight) (Not Illustrated)	1

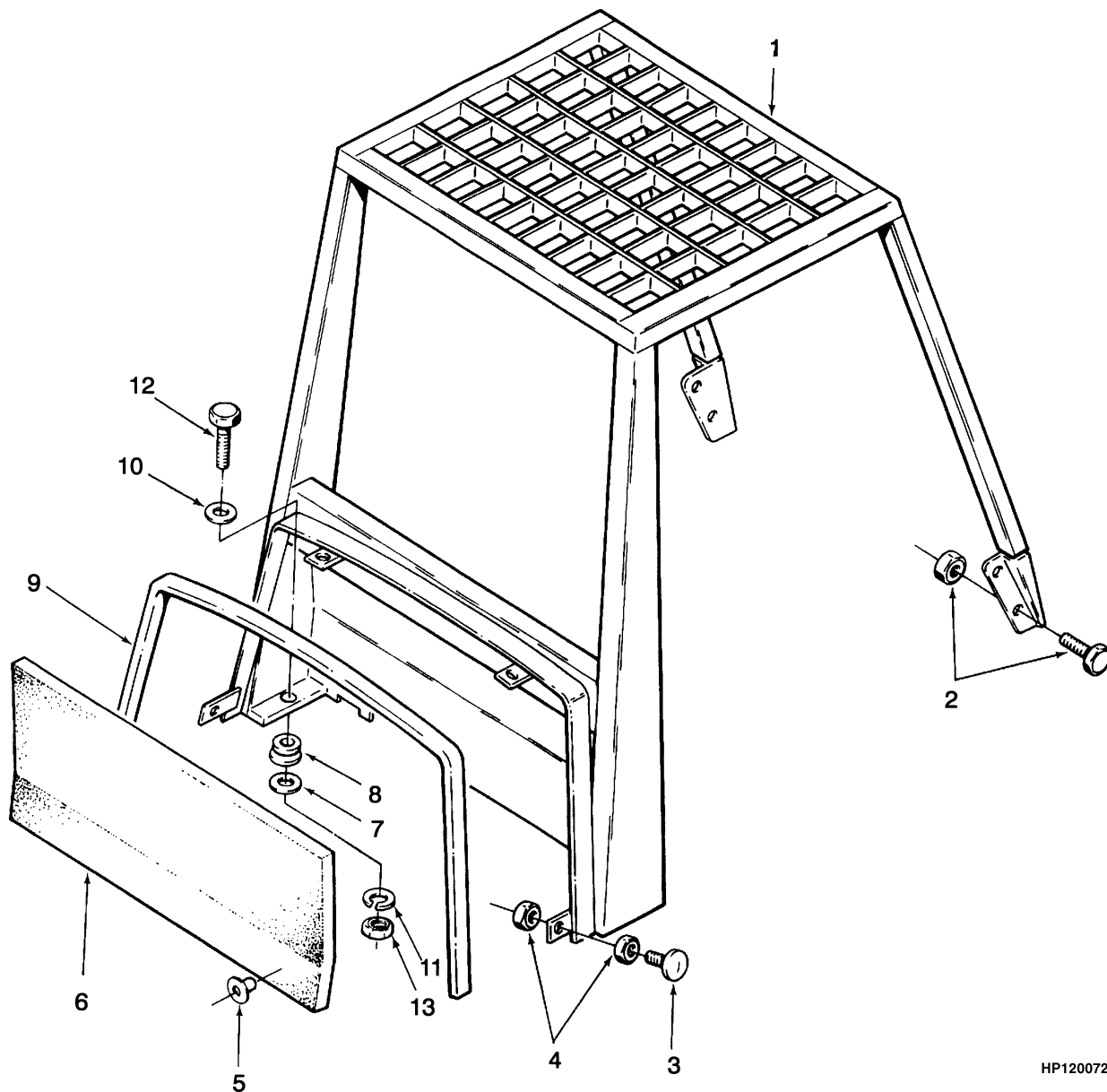
FOOTNOTES:

- | | |
|---|---------------------------|
| a All Masts 4540-5540 mm Lift without Lights | e → S/N F006A06319 |
| b Contact Your Local Yale Dealer | f S/N F006A06320 → |
| c Three Stage Full Free-Lift with Lights (4540-5540 mm Lift) | g S/N F006A07083 → |
| d → S/N F006A03790 | h S/N F006D01501 → |

NOTES

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OVERHEAD GUARD (FIGURE 1-8) (→ S/N F006D06223Y)



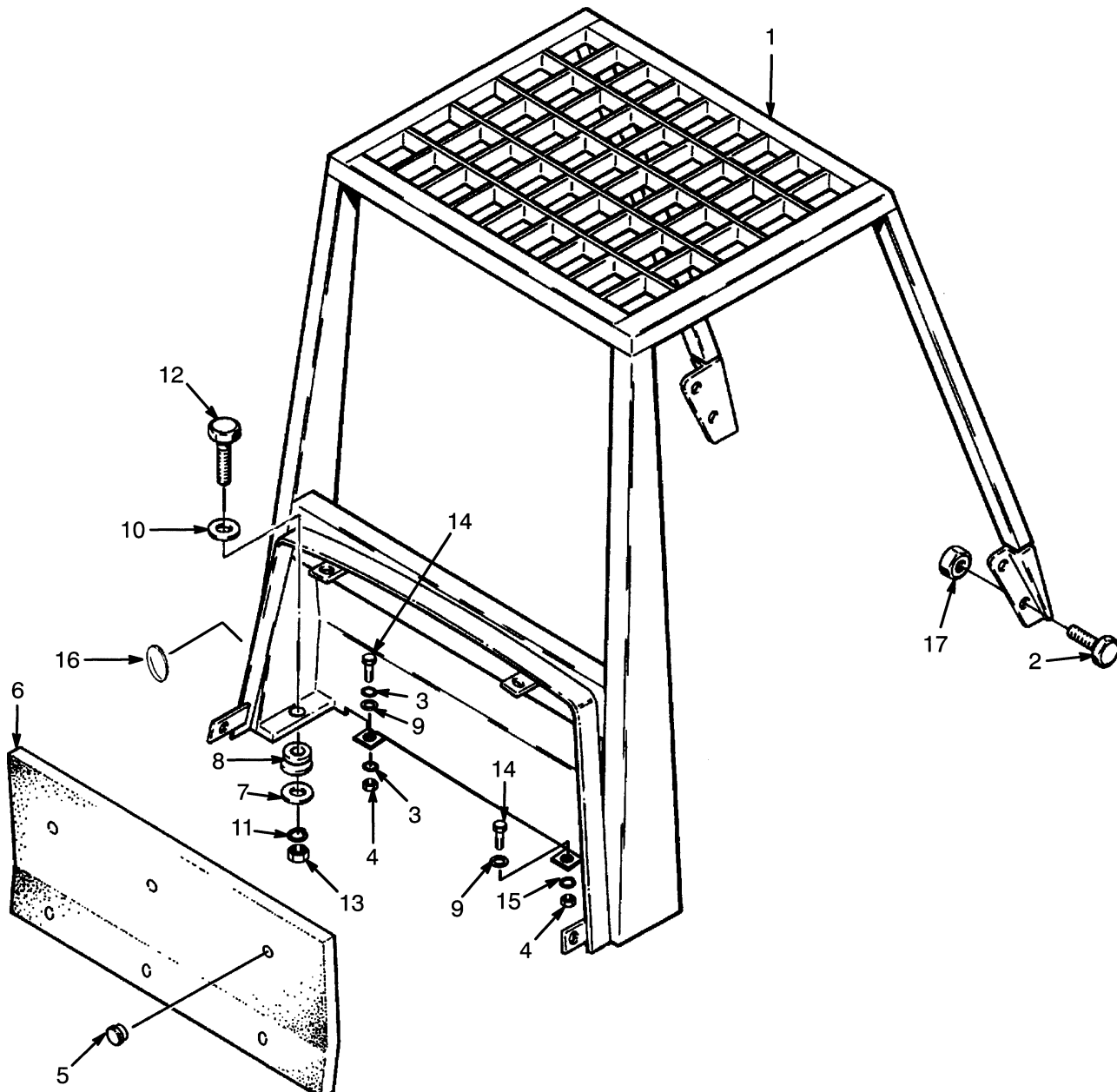
HP120072

OVERHEAD GUARD
(→ S/N F006D06223Y)

ITEM	PART NO.	DESCRIPTION	QTY
1	1335012	Overhead Guard	1
1	a 1335013	Overhead Guard	1
2	222163	Capscrew	4
2	248320	Wheel Nut	4
3	367251	Screw	4
4	15055	Nut	6
5	228376	Button	6
6	1336866	Liner	1
7	164281	Washer	2
8	129962	Motor Mount	2
9	367259	Seal	AR
10	379402	Washer	4
11	292685	Lockwasher	2
12	292570	Capscrew	2
13	292600	Nut	2

FOOTNOTES:**a** Heavy Duty Air Filter

OVERHEAD GUARD (FIGURE 1-9) (S/N F006D06224Y →)

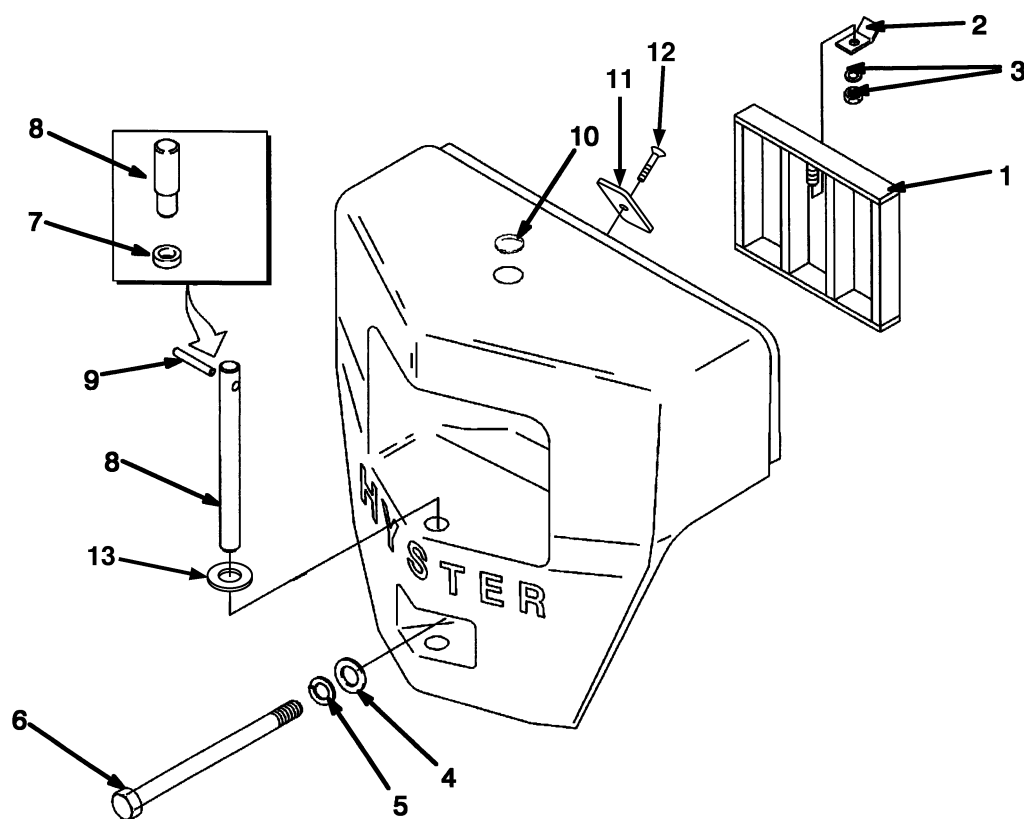


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OVERHEAD GUARD
(S/N F006D06224Y →)

ITEM	PART NO.	DESCRIPTION	QTY
1	1480689	Overhead Guard	1
2	222163	Capscrew	4
3	296361	Washer	2
4	136692	Nut	2
5	228376	Button	6
6	1336866	Liner	1
7	164281	Washer	2
8	129962	Motor Mount	2
9	320159	Washer	2
10	379402	Washer	4
11	292685	Lockwasher	2
12	292570	Capscrew	2
13	292600	Nut	2
14	136985	Capscrew	2
15	388049		
	292682	Lockwasher	1
16	1315411	Plug	1
17	248320	Wheel Nut	4

COUNTERWEIGHT (FIGURE 1-10)



HP120073

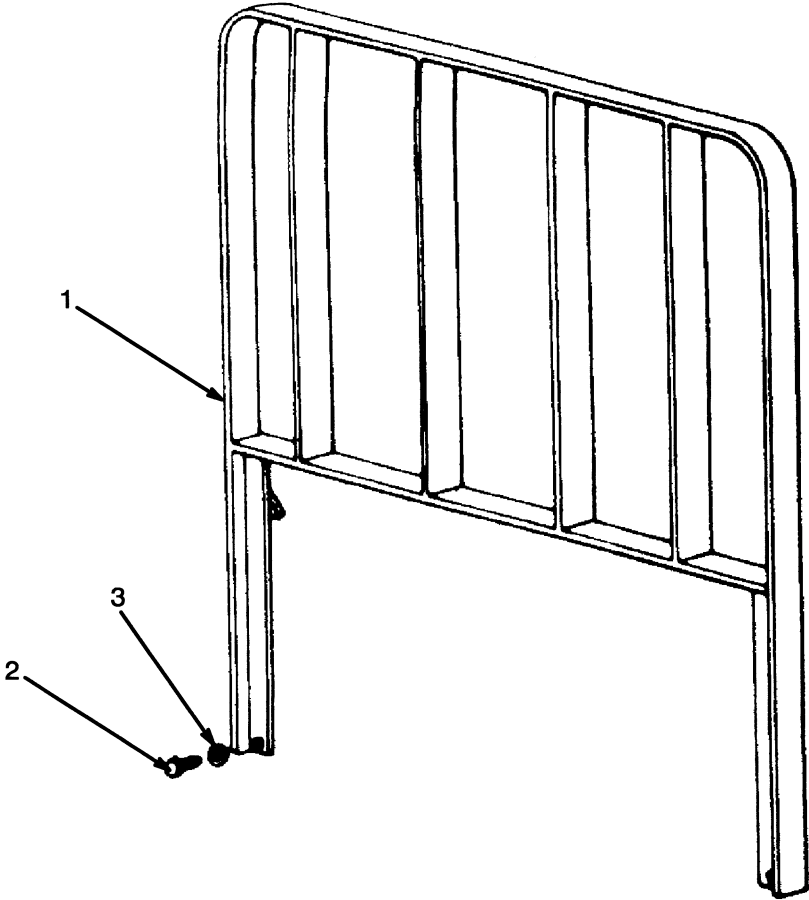
COUNTERWEIGHT**KEY:****A:** H135XL**B:** H155XL

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	ab 1334360	Counterweight	1	..
	abd 1334361	Counterweight	1	..
	ab 1334362	Counterweight	..	1
	abd 1334363	Counterweight	..	1
	c 1357461	Counterweight	1	..
	cd 1357462	Counterweight	1	..
	c 1357463	Counterweight	..	1
	cd 1357464	Counterweight	..	1
1	1320109	Grill	1	1
2	270405	Bracket	1	1
3	15057	Nut	1	1
3	15157	Lockwasher	1	1
4	150181	Washer	1	1
5	15166	Lockwasher	1	1
6	240243	Capscrew	..	1
6	270074	Capscrew	1	..
7	e 87759	Ring	1	1
8	fg 1334359	Tow Pin	1	1
9	fg 1527470	Pin	1	1
10	1337734	Plug	1	1
11	1553784	Shim	AR	AR
12	296215	Capscrew	2	2
13	15186	Washer	1	1

FOOTNOTES:

a	60 in. Carriage Width, 2.25 in. Fork Pin Diameter	e	→ S/N F006A05324
b	78 in. Carriage Width, 2.25 in. Fork Pin Diameter	f	S/N F006A05325 →
c	78 in. Carriage Width, 2.50 in. Fork Pin Diameter	g	S/N F006D01501 →
d	Optional		

LOAD BACKREST EXTENSION (FIGURE 1-11)



HP120074

ITEM	PART NO.	DESCRIPTION	QTY
1	115112W	Load Backrest (78 in.) (1981 mm [0.1381 in.])	1
1	117255W	Load Backrest (1524 mm [0.060 in.])	1
2	292561	Capscrew	6
3	292685	Lockwasher	6

2

ENGINE ASSEMBLY

SECTION 2 ENGINE ASSEMBLY

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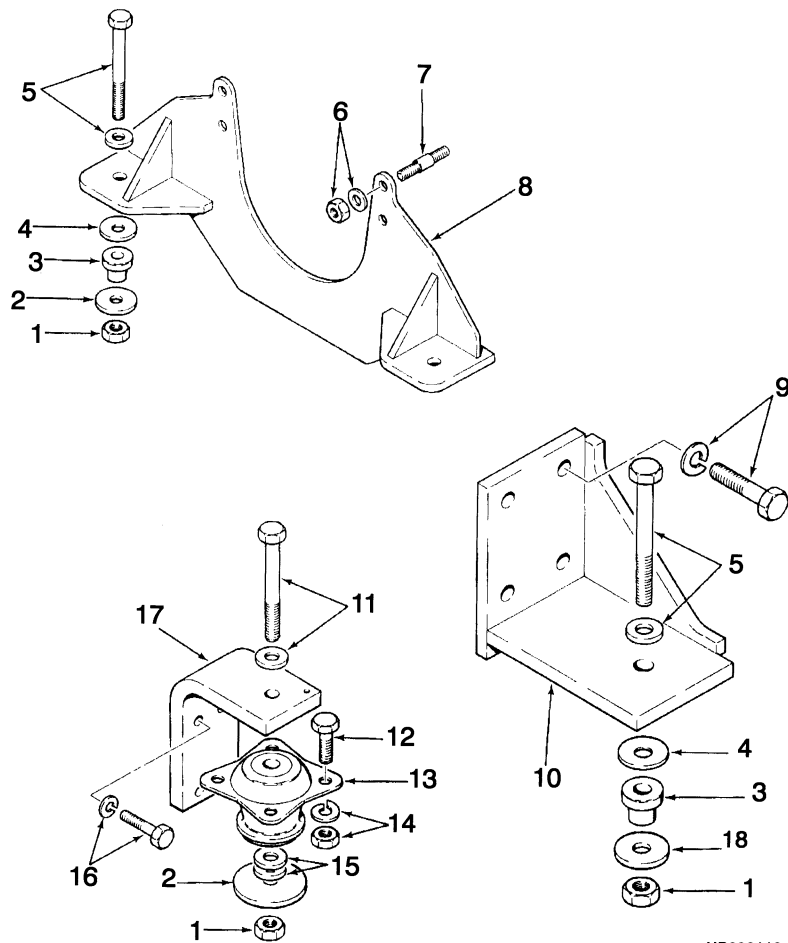
**SECTION 2
ENGINE ASSEMBLY**

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DIESEL 4.248.2 (→ S/N F006A03039) (S/N F006D01501 →) (S/N F006A01958 →)	2-170
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VALVE COVER AND ROCKER ARM SHAFT	
DIESEL - WITH LOW EMISSIONS (S/N F006D04443 →)	2-200

NOTES

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ENGINE MOUNT (FIGURE 2-1) (→ S/N F006A07431)



HP090116

ENGINE MOUNT

(→ S/N F006A07431)

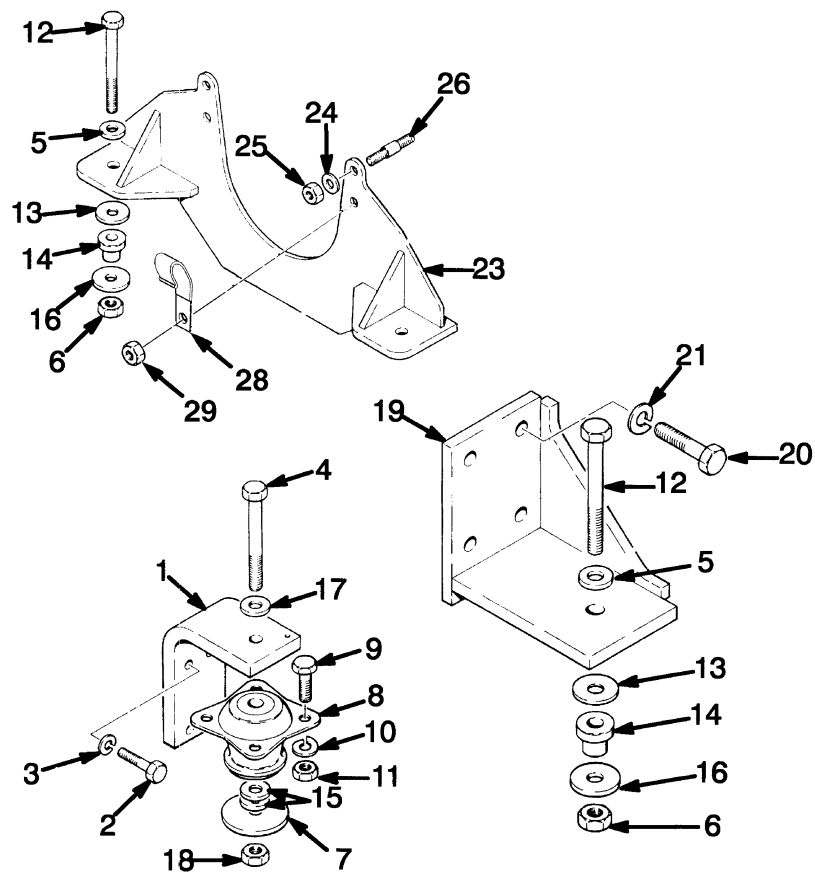
KEY:**A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	300937	Nut	4	4
2	370263	Washer	2	2
3	398350	Motor Mount	2	2
4	340796	Washer	2	2
5	292537	Capscrew	2	2
5	300932	Washer	2	2
6	139743	Locknut	4	..
6	221767	Washer	4	..
7	226414	Loctite	AR	..
7	372006	Stud	4	..
8	1315428	Bracket	1	..
9	a 133503	Capscrew	..	8
9	b 292527	Capscrew	..	8
9	292683	Lockwasher	..	8
9	313022	Sealant	..	AR
10	a 368225	Bracket	..	2
10	b 377354	Bracket	..	2
11	292540	Capscrew	2	2
11	300932	Washer	2	2
12	287860	Capscrew	8	8
13	146628	Mount (Engine)	2	2
14	136692	Nut	8	8
14	388049			
	292682	Lockwasher	7	7
14	296361	Washer	1	1
15	320161	Washer	4	4
16	293648	Capscrew	8	8
16	296422	Washer	8	8
17	340792	Bracket	2	2
18	1343207	Washer	2	2

FOOTNOTES:**a** → S/N F006A03039**b** S/N F006A03040 →

ENGINE MOUNT (FIGURE 2-2)

(S/N F006A07432 →) (S/N F006D01501 →)



HP091077

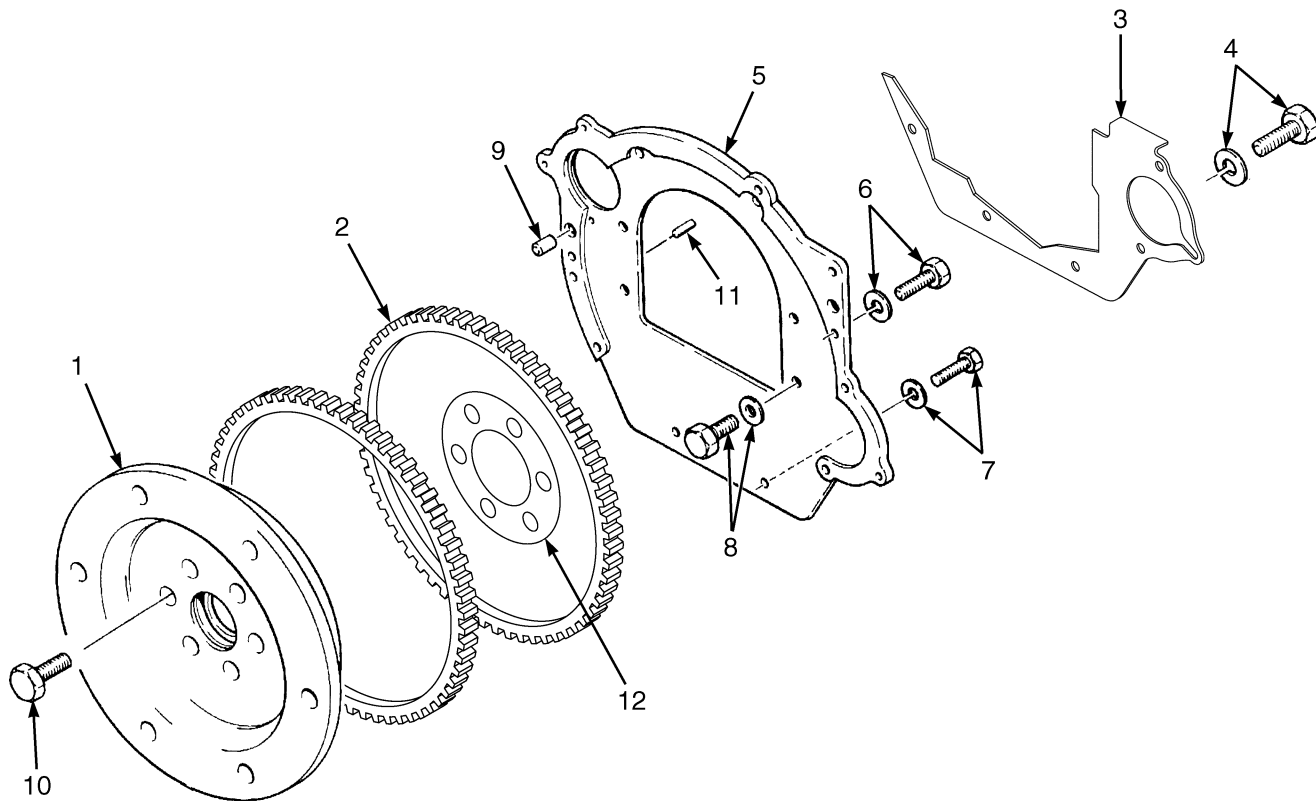
ENGINE MOUNT (S/N F006A07432 →) (S/N F006D01501 →)

KEY:**A:** Gasoline and LPG**B:** Diesel

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	340792	Bracket	2	2
2	293648	Capscrew	8	8
3	296422	Washer	8	8
4	292573	Capscrew	2	2
5	300932	Washer	2	2
6	300937	Nut	2	2
7	1357323	Washer	2	2
8	146628	Mount (Engine)	2	2
9	287860	Capscrew	8	8
10	388049			
	292682	Lockwasher	7	7
11	136692	Nut	8	8
12	292537	Capscrew	2	2
13	340796	Washer	2	2
14	398350	Motor Mount	2	2
15	320165	Washer	4	4
16	300939	Washer	2	2
17	1357322	Washer	2	2
18	316828	Nut	2	2
19	377354	Bracket	..	2
20	292527	Capscrew	..	8
21	292683	Lockwasher	..	8
22	264159	Adhesive	..	AR
23	a 1315428	Bracket	1	..
23	b 1383350	Bracket Wldmt	1	..
24	221767	Washer	4	..
25	139743	Locknut	4	..
26	372006	Stud	4	..
27	264134	Loctite	AR	..
28	325897	Clamp	1	..
29	139743	Locknut	1	..

FOOTNOTES:**a** → S/N F006D02947 INC. 2960, 2976 EXC. 2936**b** S/N F006D02947 → INC. 2936 EXC. 2960, 2976

FLYWHEEL (FIGURE 2-3)

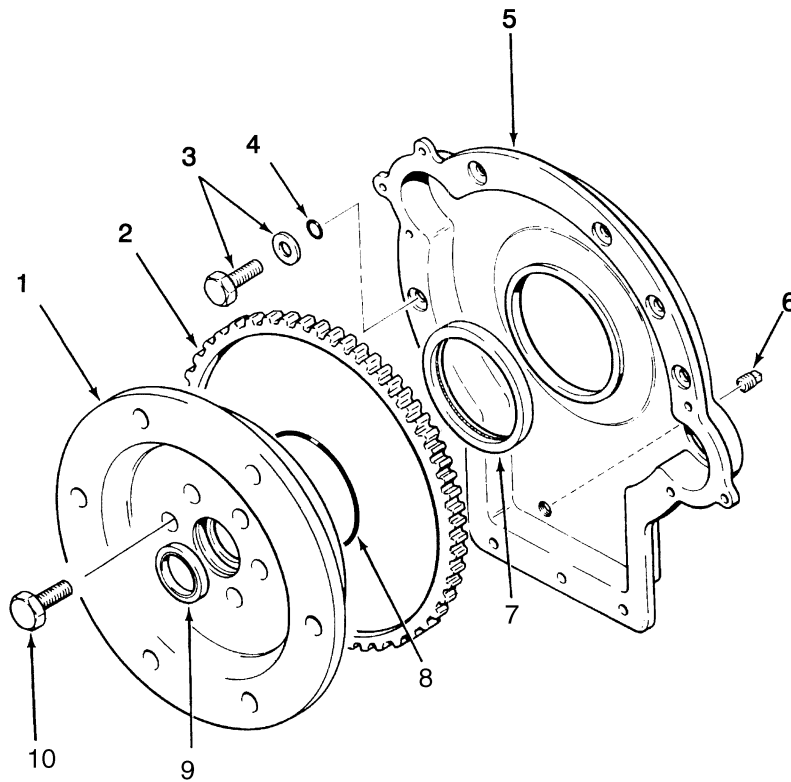


HP090256

FLYWHEEL**KEY:****A: Gasoline and LPG (Powershift)****B: Diesel (Powershift)**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	g 1454600	Flywheel	..	1
1	b 344357	Flywheel	..	1
1	c 350152	Flywheel	1	..
1	h 1459400	Flywheel	1	..
2	195856	Ring Gear	1	1
3	f 1384335	Cover	1	..
3	a 350155	Cover	1	..
4	287851	Capscrew	4	..
4	292681	Lockwasher	4	..
5	377326	Adapter	..	1
6	15156	Lockwasher	..	3
6	16828	Capscrew	..	3
7	176640	Bolt	..	4
7	292681	Lockwasher	..	4
8	221503	Capscrew	..	6
8	221767	Washer	..	6
8	de 293630	Capscrew	..	6
8	de 296420	Washer	..	6
9	1335499	Pin	..	2
10	284152	Bolt	6	..
10	97577	Bolt	..	6
11	de 186420	Dowel	..	2
12	1459391	Shim (0.118 in.)	1	..

FOOTNOTES:**a** → S/N F006D02947 INC. 2960, 2976 EXC. 2936**b** → S/N F006D04442**c** → S/N F006D04755**d** S/N F006A03040 →**e** S/N F006D01501 →**f** S/N F006D02948 → INC. 2936 EXC. 2960, 2976**g** S/N F006D04443 →**h** S/N F006D04756 →

FLYWHEEL (FIGURE 2-4)
(→ S/N F006D03779)

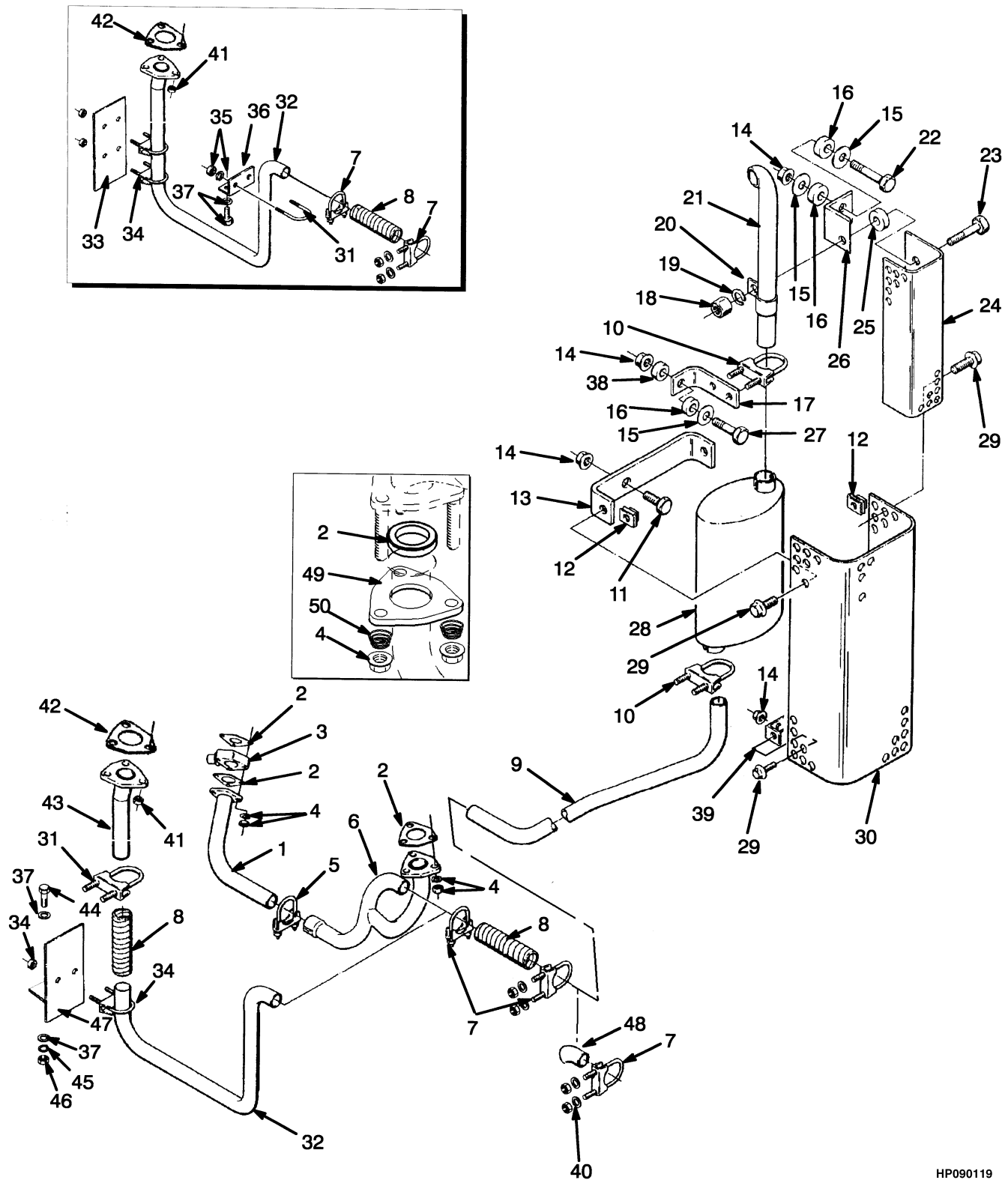
HP090257

FLYWHEEL
(→ S/N F006D03779)**KEY:****A:** Gasoline and LPG (Oil Clutch)**B:** Diesel (Oil Clutch)

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	284150	Flywheel	..	1
1	350153	Flywheel	1	..
2	195856	Ring Gear	1	1
3	177461	Capscrew	5	..
3	a 221500	Capscrew	..	6
3	bc 261379	Washer	5	..
3	a 261379	Washer	5	6
3	a 293630	Capscrew	..	6
3	bc 296420	Washer	..	6
4	184924	O-Ring	5	6
5	344283	Adapter	..	1
5	344359	Adapter	1	..
5	bc 377325	Adapter	..	1
6	15303	Plug	1	1
7	141113	Seal	1	..
7	267538	Seal	..	1
7	273338	Thread Sealant	AR	AR
8	224625	O-Ring	..	1
8	281067	O-Ring	1	..
9	43205	Bearing	1	1
10	273338	Thread Sealant	AR	AR
10	284152	Bolt	6	..
10	92816	Bolt	..	6
11	bc 186420	Dowel	..	2

FOOTNOTES:**a** → S/N F006A03039**c** S/N F006D01501 →**b** S/N F006A03040 →

EXHAUST (FIGURE 2-5) WITH CAB



HP090119

**EXHAUST
WITH CAB****KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	f 368233	Exhaust Pipe	1	..
1	q 1325044	Exhaust Pipe	1	..
1	sab 1330289	Exhaust Pipe	1	..
1	lm 1389335	Exhaust Pipe	1	..
1	w 1476024	Exhaust Pipe	1	..
2	i 88145	Gasket	3	..
2	sab 88145	Gasket	2	..
2	v 1338258	Seal	2	..
3	i 88511	Valve	1	..
4	c 388049	Lockwasher	6	..
4	c 16526	Nut	6	..
4	k 16526	Nut	12	..
4	mv 192077	Nut	6	..
4	w 1337118	Capscrew	6	..
4	t 1369003	Lockplate	6	..
5	63116	Clamp	1	..
6	f 346286	Exhaust Pipe	1	..
6	ny 1325046	Exhaust Pipe	1	..
6	av 1389336	Exhaust Pipe	1	..
6	w 1500776	Exhaust Pipe	1	..
7	m 30370	Clamp	2	..
7	w 30370	Clamp	1	..
7	h 30370	Clamp	..	2
7	aax 30370	Clamp	..	1
8	gm 346284	Flex Tube	1	1
8	o 292841	Flex Tube	1	..
8	maax 346284	Flex Tube	1	..
8	zx 292841	Flex Tube	..	1
9	368249	Exhaust Pipe	1	1
10	30370	Clamp	2	2
10	1388300	Lockwasher (Not Illustrated)	4	4
11	b 16805	Capscrew	2	2
11	adx 16805	Capscrew	3	3
12	b 269200	Nut	5	5
12	adx 269200	Nut	6	6
13	b 369128	Bracket	2	2
13	adx 377616	Bracket Wldmt	1	1
14	b 192077	Nut	5	5
14	adx 192077	Nut	6	6
15	15176	Washer	4	4
16	223216	Bushing	6	6
17	1375986	Bracket	2	2
18	15056	Nut	1	1
19	15156	Lockwasher	1	1

EXHAUST WITH CAB

KEY:
A: Gasoline and LPG
B: Diesel

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
20	369136	Clamp	1	1
21	369129	Exhaust Pipe	1	1
22	18540	Capscrew	1	1
23	16828	Capscrew	1	1
24	369127	Exhaust Shield	1	1
25	107151	Washer	1	1
26	369135	Bracket	1	1
27	16816	Capscrew	2	2
28	367266	Muffler	1	1
29	rad 134803	Screw	5	5
29	jadx 399066	Screw	6	6
30	d 369134	Shield	1	1
30	raeaf 386383	Shield	1	1
30	acu 1392553	Shield	1	1
31	63116	Clamp	..	1
32	f 346289	Exhaust Pipe	..	1
32	p 377329	Exhaust Pipe	..	1
32	aax 1343727	Exhaust Pipe	..	1
33	h 346294	Heat Shield	..	1
34	aax 222899	Clamp	..	1
34	h 222899	Clamp	..	2
35	agx 292681	Lockwasher	..	2
35	e 15155	Lockwasher	..	2
36	f 344379	Bracket	..	1
36	p 377345	Bracket	..	1
37	e 18499	Capscrew	..	2
37	agx 136749	Screw	..	2
37	15155	Lockwasher	..	2
37	p 292681	Lockwasher	..	2
37	aax 320159	Washer	..	4
38	379952	Spacer	2	2
39	ad 377617	Bracket Wldmt	1	1
40	320157	Washer	2	2
41	1306370	Nut	..	3
42	1355319	Gasket (DSL 100.4)	..	1
42	1329525	Gasket (DSL 4.248.2)	..	1
43	aax 1343725	Exhaust Pipe	..	1
44	aax 287860	Capscrew	..	2
45	aax 388049	Lockwasher	..	2
46	aax 136692	Nut	..	2
47	aax 1343731	Bracket Wldmt	..	1
48	mv 1383251	Exhaust Pipe	1	..
49	mv 1380805	Flange	2	..
49	w 1499514	Flange	1	..

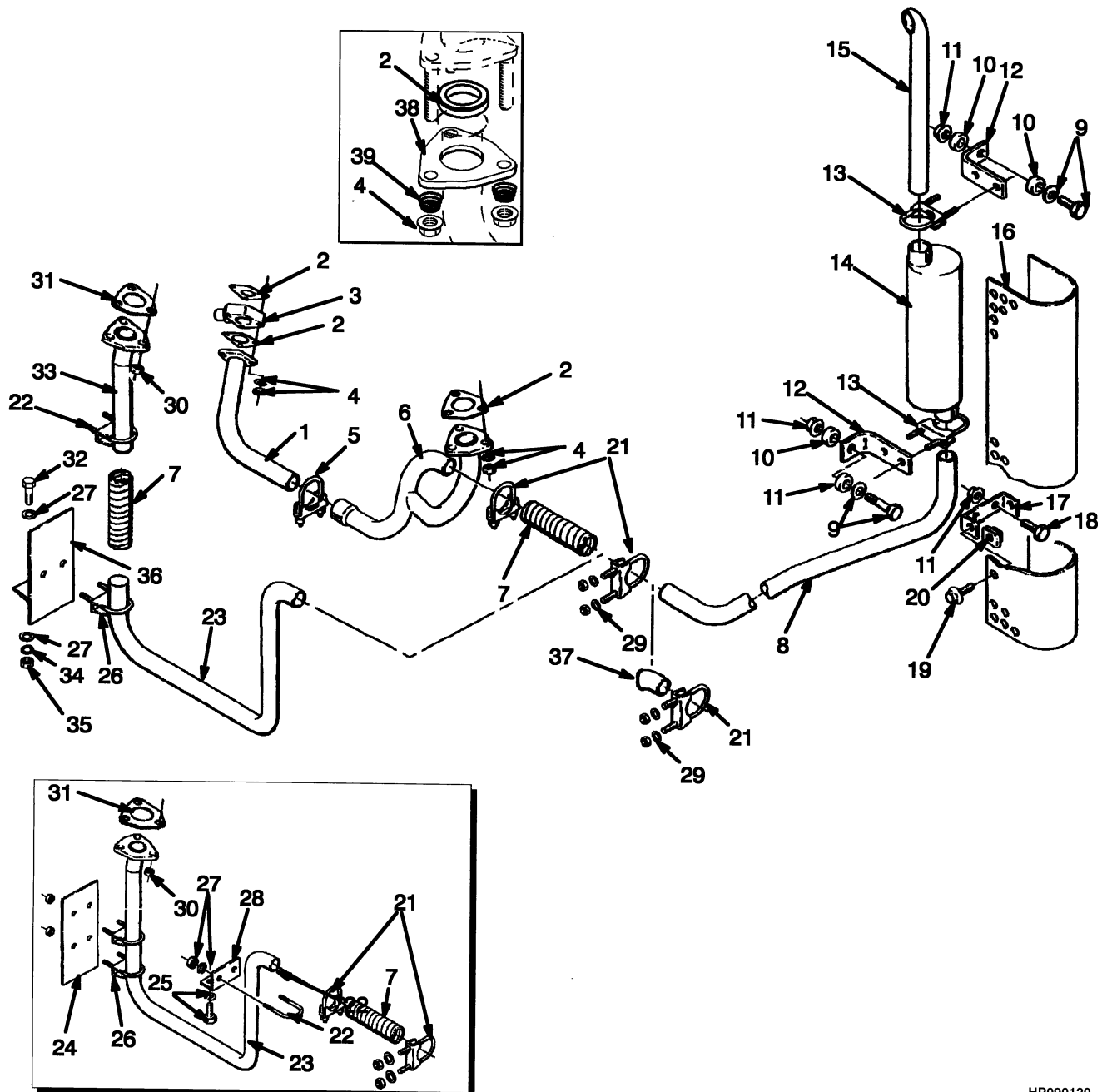
**EXHAUST
WITH CAB****KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
50	mv 1380803	Spring	6	..
50	w 1335898	Spring	6	..

FOOTNOTES:

a → 7/2002	r S/N F006D01501 ↔ S/N F006D02182 INC. 2237, 2257
b → S/N F006A01537	s S/N F006D01501 ↔ S/N F006D02947 INC. 2237, 2257
c → S/N F006A02670	t S/N F006D01830 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936
d → S/N F006A02840	u S/N F006D02183 → EXC. 2237, 2257
e → S/N F006A03039	v S/N F006D02948 → INC. 2936 EXC. 2960, 2976
f → S/N F006A05277	w S/N F006V02089A →
g → S/N F006A05396	x S/N F006D01501 →
h → S/N F006A06590	y S/N F006A05278 →
i → S/N F006A07082	z S/N F006A05397 →
j → S/N F006D02182	aa S/N F006A06591 →
k → S/N F006D02947 INC. 2960, 2976 EXC. 2936	ab S/N F006A07083 →
l → S/N F006D02948 INC. 2936 EXC. 2960, 2976	ac S/N F006A08146 →
m → S/N F006V02088A	ad S/N F006A01538 →
n S/N F006A01501 ↔ S/N F006A02947 INC. 2969, 2976 EXC. 2936	ae S/N F006A02209 →
o S/N F006A05397 ↔ S/N F006A06590	af S/N F006A02841 →
p S/N F006A05278 ↔ S/N F006A06590	ag S/N F006A03040 →
q S/N F006A05278 ↔ S/N F006A07082	

EXHAUST (FIGURE 2-6) WITHOUT CAB



HP090120

**EXHAUST
WITHOUT CAB****KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	b 368233	Exhaust Pipe	1	..
1	i 1325044	Exhaust Pipe	1	..
1	jq 1330289	Exhaust Pipe	1	..
1	l 1383252	Exhaust Pipe	1	..
2	e 88145	Gasket	3	..
2	jq 88145	Gasket	2	..
2	l 1338258	Seal	2	..
3	e 88511	Valve	1	..
4	i 388049	Lockwasher	6	..
4	292682	Nut	6	..
4	i 16526	Nut	12	..
4	f 16526	Nut	6	..
4	l 192077	Nut	6	..
4	k 1369003	Lockplate	6	..
5	30370	Clamp	1	..
6	b 346286	Exhaust Pipe	1	..
6	jn 1325046	Exhaust Pipe	1	..
6	l 1383253	Exhaust Pipe	1	..
7	c 346284	Flex Tube	1	1
7	g 292841	Flex Tube	1	..
7	pm 346284	Flex Tube	1	..
7	om 292841	Flex Tube	..	1
8	346283	Exhaust Pipe	1	1
9	15176	Washer	2	2
9	16815	Capscrew	2	2
10	223216	Bushing	4	4
11	1388300	Lockwasher	4	4
12	1375986	Bracket	2	2
13	30370	Clamp	2	2
14	344275	Muffler	1	1
15	346293	Exhaust Pipe	1	1
16	346295	Exhaust Shield	1	1
17	344381	Bracket	2	2
18	16805	Capscrew	2	2
19	134803	Screw	4	4
20	269200	Nut	4	4
21	30370	Clamp	2	..
21	d 30370	Clamp	..	2
21	pm 30370	Clamp	..	1
22	63116	Clamp	..	1
23	b 346289	Exhaust Pipe	..	1
23	h 377329	Exhaust Pipe	..	1
23	pm 1343727	Exhaust Pipe	..	1
24	d 346294	Heat Shield	..	1
25	a 18499	Capscrew	..	2

**EXHAUST
WITHOUT CAB****KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
25	rm 136749	Screw	..	2
25	a 15155	Lockwasher	..	2
25	rm 292681	Lockwasher	..	2
26	d 222899	Clamp	..	2
26	pm 222899	Clamp	..	1
27	b 15155	Lockwasher	..	2
27	h 292681	Lockwasher	..	2
27	pm 320159	Washer	..	4
28	b 344379	Bracket	..	1
28	h 377345	Bracket	..	1
29	320157	Washer	2	2
30	1306370	Nut	..	3
31	1355319	Gasket (DSL 1004.4)	..	1
31	1329525	Gasket (DSL 4.248.2)	..	1
32	pm 287860	Capscrew	..	2
33	pm 1343725	Exhaust Pipe	..	1
34	pm 388049			
	292682	Lockwasher	..	2
35	pm 136692	Nut	..	2
36	pm 1343731	Bracket Wldmt	..	1
37	l 1383251	Exhaust Pipe	1	..
38	l 1380805	Flange	2	..
39	l 1380803	Spring	2	..

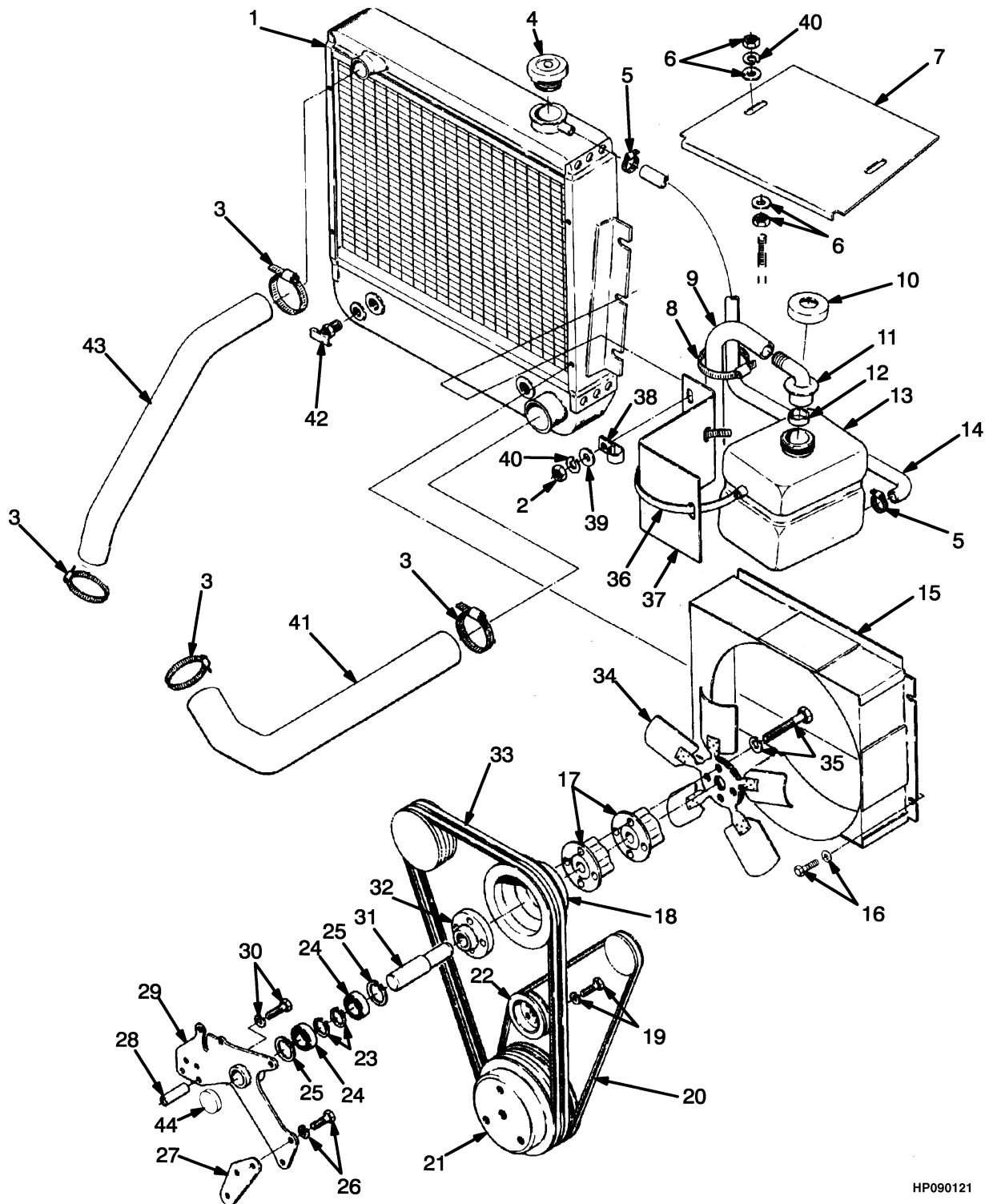
FOOTNOTES:

a → S/N F006A03039	j S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936
b → S/N F006A05277	k S/N F006D01830 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936
c → S/N F006A05396	l S/N F006D02948 → INC. 2936 EXC. 2960, 2976
d → S/N F006A06590	m S/N F006D01501 →
e → S/N F006A07082	n S/N F006A05278 →
f → S/N F006D02947 INC. 2960, 2976 EXC. 2936	o S/N F006A05397 →
g S/N F006A05397 ↔ S/N F006A06590	p S/N F006A06591 →
h S/N F006A05278 ↔ S/N F006A06590	q S/N F006A07083 →
i S/N F006A05278 ↔ S/N F006A07082	r S/N F006A03040 →

NOTES

[illegible]

COOLING (FIGURE 2-7) GASOLINE AND LPG (→ S/N F006D02202)



HP090121

COOLING
GASOLINE AND LPG (→ S/N F006D02202)

ITEM	PART NO.	DESCRIPTION	QTY
1	1387250	Radiator (Powershift)	1
1	1387255	Radiator (Oil Clutch)	1
2	239503	Nut	4
3	119236	Clamp	4
4	178899	Radiator Cap	1
5	353310	Clamp	2
6	15055	Nut	4
6	221733	Washer	4
7	350052	Cover	1
8	137852	Strap Clamp	1
9	339735	Hose	1
10	345454	Cap	1
11	345453	Outlet (Reservoir)	1
12	336550	Bushing	1
13	344432	Reservoir	1
14	1302955	Hose	1
15	373109	Shroud	1
16	15127	Washer	4
16	16073	Screw	4
17	350199	Spacer	2
18	373119	Fan Pulley	1
19	15155	Lockwasher	4
19	16818	Capscrew	4
20	353393	V-Belt	1
21	350070	Pulley	1
22	373121	Water Pump Pulley	1
23	160996	Snap Ring	2
24	128469	Ball Bearing	2
25	12928	Snap Ring	2
26	15156	Lockwasher	2
26	18547	Capscrew	2
27	344351	Bracket	1
28	344350	Spacer	3
29	1328888	Bracket Wldmt	1
30	15156	Lockwasher	3
30	18542	Capscrew	3
31	257291	Adhesive	AR
31	374034	Shaft	1
32	172885	Spacer	1
33	344353	V-Belt Set	1
34	148891	Fan	1
35	15155	Lockwasher	4
35	18527	Capscrew	4
36	340204	Strap	1
37	340203	Bracket	1
38	124297	Clamp	1
39	320158	Washer	4
40	292681	Lockwasher	6
41	344367	Radiator Hose (Lower)	1
42	12815	Drain Valve (Drain)	1

COOLING
GASOLINE AND LPG (→ S/N F006D02202)

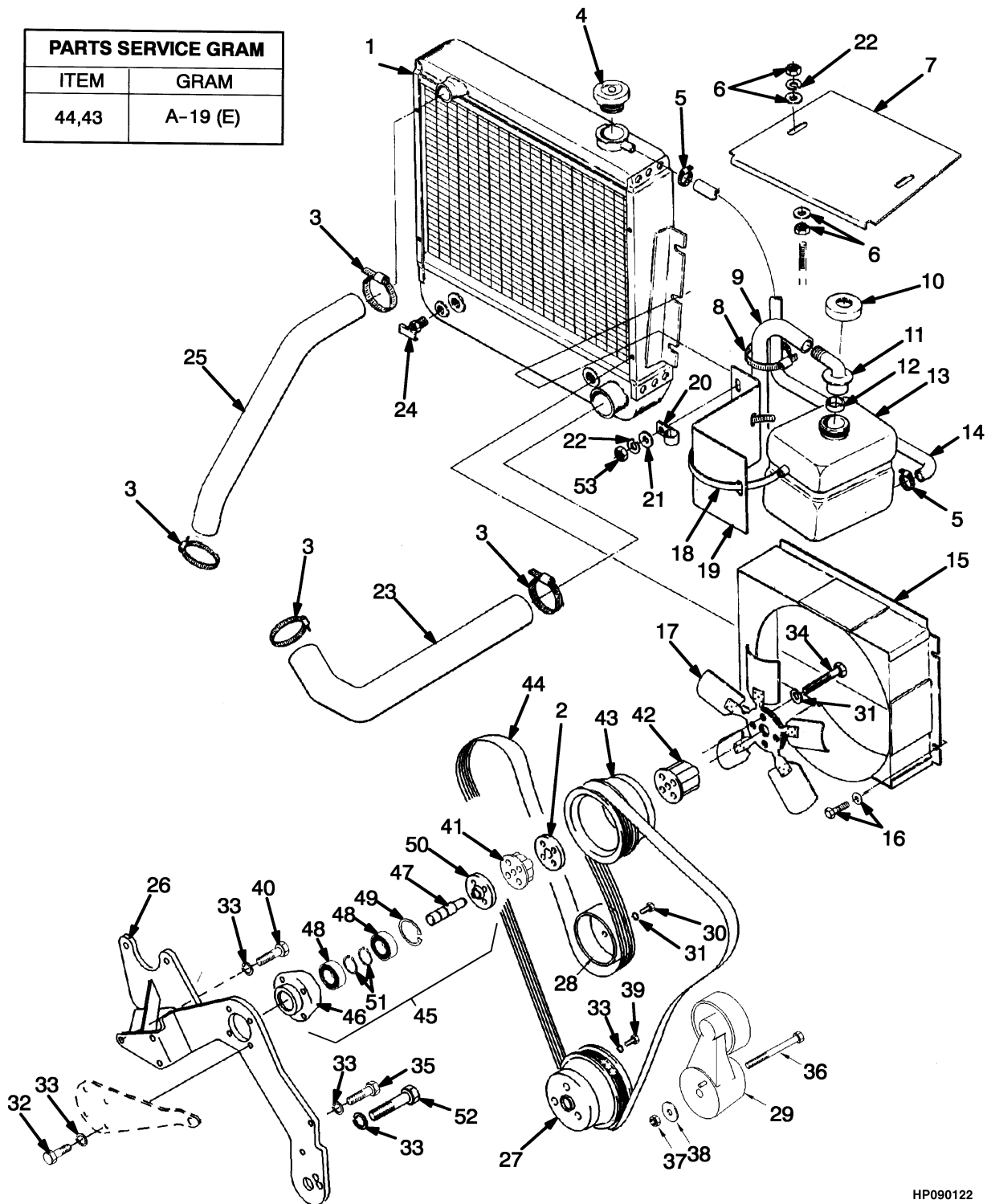
ITEM	PART NO.	DESCRIPTION	QTY
43	344366	Radiator Hose (Upper)	1
44	1305150	Plug	1
	996016	Kit-Cooling	1

NOTES

[illegible]

COOLING (FIGURE 2-8) GASOLINE AND LPG (S/N F006D02203 →)

PARTS SERVICE GRAM	
ITEM	GRAM
44,43	A-19 (E)



HP090122

COOLING

GASOLINE AND LPG (S/N F006D02203 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	c 1387255	Radiator (Oil Clutch)	1
1	1456899	Radiator (Powershift)	1
2	a 1377736	Spacer	1
3	119236	Clamp	4
4	178899	Radiator Cap	1
5	353310	Clamp	2
6	15055	Nut	4
6	221733	Washer	4
7	350052	Cover	1
8	137852	Strap Clamp	1
9	339735	Hose	1
10	345454	Cap	1
11	345453	Outlet (Reservoir)	1
12	336550	Bushing	1
13	344432	Reservoir	1
14	1302955	Hose	1
15	373109	Shroud	1
16	15127	Washer	4
16	16073	Screw	4
17	148891	Fan	1
18	340204	Strap	1
19	340203	Bracket	1
20	124297	Clamp	1
21	320158	Washer	4
22	292681	Lockwasher	6
23	1377754	Radiator Hose (Lower)	1
24	12815	Drain Valve (Drain)	1
25	344366	Radiator Hose (Upper)	1
26	b 1377773	Bracket	1
27	b 4019025		
	1377750	Pulley	1
28	b 1377735	Water Pump Pulley (Water Pump)	1
29	b 1377752	Tensioner	1
30	136681	Capscrew	4
31	292681	Lockwasher	8
32	287860	Capscrew	4
33	388049		
	292682	Lockwasher	12
34	18527	Capscrew	4
35	18547	Capscrew	2
36	292524	Capscrew	1
37	316826	Nut	1
38	b 1377774	Washer	1
39	16634	Capscrew	3
40	16805	Capscrew	3
41	b 1377781	Spacer (Fan)	1
42	b 1377795	Spacer (Fan)	1
43	a 1377760	Pulley	1
43	d 1380309	Pulley	1
44	b 1377761	V-Belt	1

COOLING

GASOLINE AND LPG (S/N F006D02203 →)

ITEM	PART NO.	DESCRIPTION	QTY
45		Fan Mount	1
46	b 1377745	Hub	1
47	b 1377749	Shaft	1
48	b 128469	Ball Bearing	2
49	12928	Snap Ring	1
50	b 172885	Spacer	1
50	b 257291	Adhesive	AR
51	b 131357	Snap Ring	2
51	160996	Snap Ring (Optional)	2
52	18549	Capscrew	1
53	239503	Nut	4
	996016	Kit-Cooling	1

FOOTNOTES:

a → S/N F006D02449

b → S/N F006D02947 INC. 2936 EXC. 2960, 2976

c → S/N F006D03779

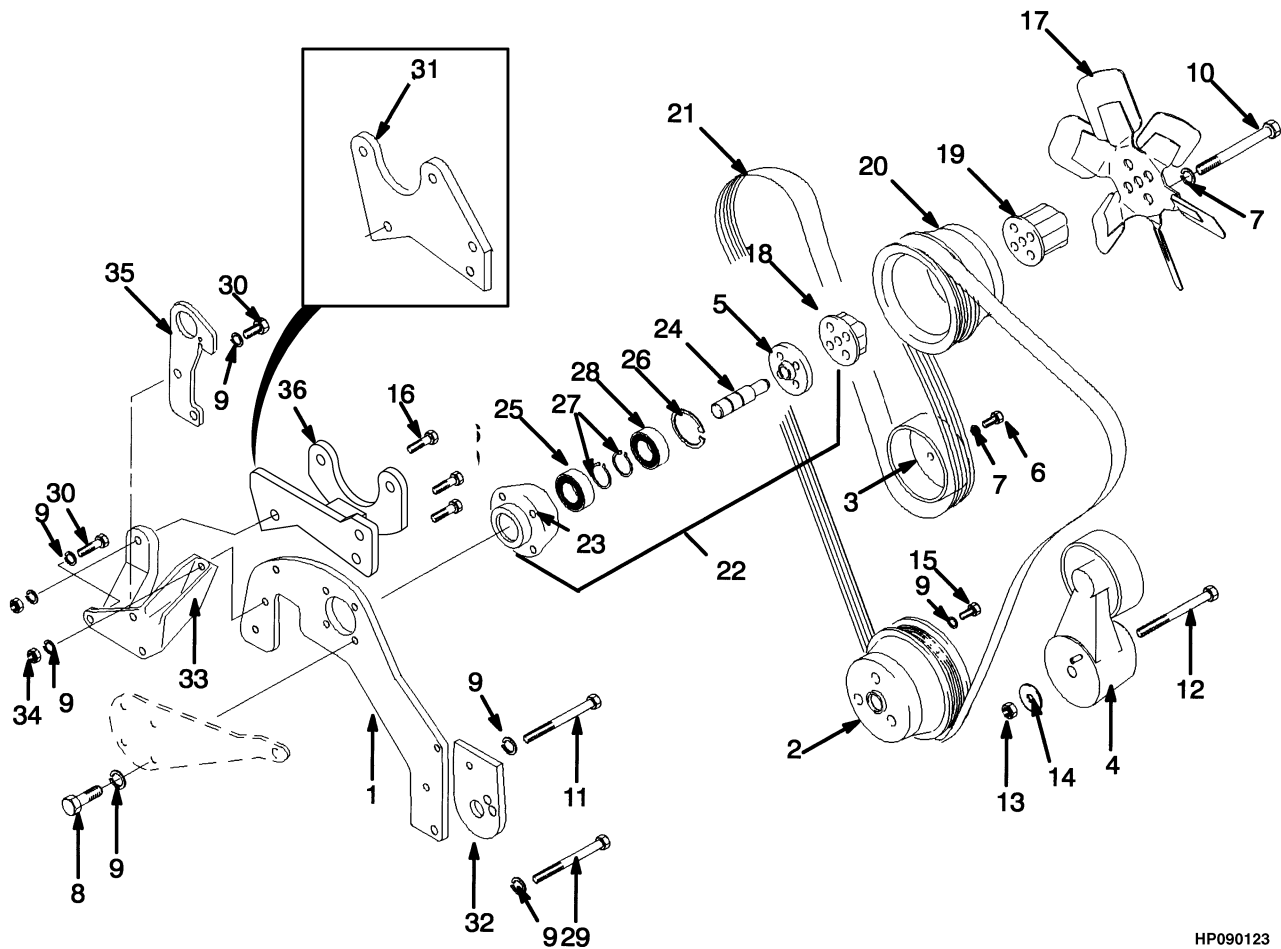
d S/N F006D02450 →

NOTES

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SERPENTINE BELT DRIVE (FIGURE 2-9)

GASOLINE AND LPG (S/N F006D02947 → INC. 2960, 2976 EXC. 2936)



HP090123

SERPENTINE BELT DRIVE **GASOLINE AND LPG (S/N F006D02947 → INC. 2960, 2976 EXC. 2936)**

ITEM	PART NO.	DESCRIPTION	QTY
1	1383225	Plate	1
2	4019025		
	1377750	Pulley	1
3	1383204	Water Pump Pulley (Water Pump)	1
4	1377752	Tensioner	1
5	a 172885	Spacer	1
6	136681	Capscrew	4
7	292681	Lockwasher	8
8	287860	Capscrew	4
9	388049		
	292682	Lockwasher	15
10	18529	Capscrew	4
11	18547	Capscrew	1
12	292524	Capscrew	1
13	316826	Nut	1
14	320159	Washer	1
15	16634	Capscrew	3
16	c 16815	Capscrew	2
16	g 16815	Capscrew	4
17	148891	Fan	1
18	1377781	Spacer (Fan)	1
19	1377795	Spacer (Fan)	1
20	1380309	Pulley	1
21	c 1377761	V-Belt	1
21	g 2036995	V-Belt	1
22	a 1377742	Fan Mount	1
22	d 1389344	Fan Mount	1
22	f 1506794	Fan Drive	1
22	f 1459012	Sleeve (Not illusrtated)	1
23	b 1377745	Hub	1
23	f 1506713	Hub	1
24	a 1377749	Shaft	1
24	d 1389340	Shaft	1
24	f 1459007	Shaft	1
25	a 128469	Ball Bearing	2
25	e 124668	Ball Bearing	1
26	12928	Snap Ring	1
27	a 131357	Snap Ring	2
27	e 160996	Snap Ring	1
28	d 128469	Ball Bearing	1
28	f 1459011	Ball Bearing	1
29	18547	Capscrew	1
30	c 16816	Capscrew	2
30	g 16816	Capscrew	4
31	c 1383227	Plate	1
32	1383226	Plate	1
33	1383208	Bracket	1
33	1389348	Bracket	1
34	15056	Nut	3
35	1383228	Plate	1

SERPENTINE BELT DRIVE
GASOLINE AND LPG (S/N F006D02947 → INC. 2960, 2976 EXC. 2936)

ITEM	PART NO.	DESCRIPTION	QTY
36	g 1461800	Starting Aid	1

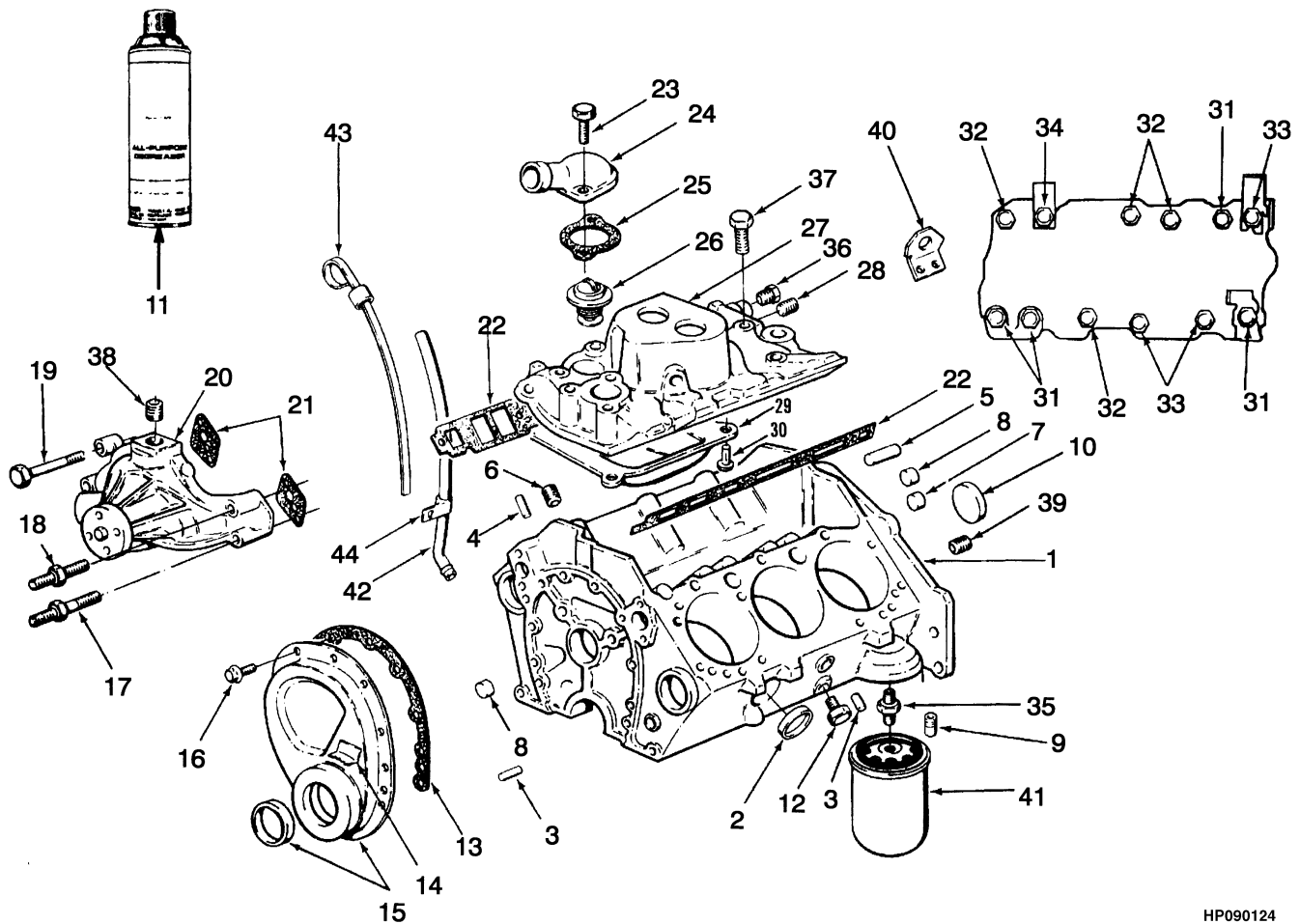
FOOTNOTES:

- | | | | |
|----------|----------------------------------|----------|-------------------|
| a | → S/N F006D03532 | e | S/N F006D03533 → |
| b | → S/N F006D04932W | f | S/N F006D04933W → |
| c | → S/N F006D05389W | g | S/N F006D05390W → |
| d | S/N F006D03533 ↔ S/N F006D04932W | | |

NOTES

[illegible]

CYLINDER BLOCK (FIGURE 2-10) GASOLINE AND LPG — 1986 THRU 1989 SERIES ENGINE



HP090124

CYLINDER BLOCK

GASOLINE AND LPG – 1986 THRU 1989 SERIES ENGINE

KEY:**A: 6KM 1986 Series Engine****B: 7KM 1987 Series Engine****C: 8KM 1988 Series Engine****D: 9KM 1989 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1302960	Engine Assy-Gas	..	..	1	..
	1312468	Engine Assy-Gas	..	..	..	1
	373100	Engine Assy-Gas	1	..	..	..
	383134	Engine Assy-Gas	..	1	..	..
1	1303792	Cylinder Block	..	1	1	1
1	306770	Cylinder Block	1	..	..	..
2	169718	Plug	8	8	8	8
3	1450941	Pin	4	4	4	4
4	159977	Pin	4	4	4	4
5	1335499	Pin	2	2	2	2
6	349378	Plug	2	2	2	2
7	150879	Fitting	1	1	1	1
8	388302	Plug	..	2	2	2
9	1358156	Valve	1	1	1	1
10	263788	Plug (Rear Bearing)	1	1	1	1
11	178297	Degreaser	AR	AR	AR	AR
12	274232	Plug	2	2	2	2
13	375590	Gasket	1	1	1	1
14	375589	Pointer	1	1	1	1
15	1335059	Cover	1	1	1	1
15	1374107					
	1690267	Oil Seal	1	1	1	1
16	370169	Kit-Screw	10	10	10	10
17	263826	Stud	1	1	1	1
18	185768	Capscrew (RH)	1	1	1	1
18	263827	Stud (LH)	1	1	1	1
19	177461	Capscrew	1	1	1	1
20	133469	Capscrew	6	6	6	6
20	369748	Washer	6	6	6	6
20	a 381355	Water Pump	1	1	1	1
21	263828	Gasket	2	2	2	2
22	375596	Gasket (RH)	..	1	1	1
22	375596	Gasket	2	..	..	..
22	388353	Kit-Gasket (LH)	..	1	1	1
23	221499	Capscrew	2	2	2	2
24	246479	Water Outlet	1	1	1	1
25	1330725	Gasket	1	1	1	1
26	231522	Thermostat (180° F)	1	1	1	1
27	375593	Manifold	1	1	1	1
28	375595	Plug	1	1	1	1
29	375594	Guard	1	1	1	1
30	1335213	Stud	4	4	4	4
31	375597	Bolt	4	4	4	4

CYLINDER BLOCK

GASOLINE AND LPG – 1986 THRU 1989 SERIES ENGINE

KEY:

A: 6KM 1986 Series Engine

B: 7KM 1987 Series Engine

C: 8KM 1988 Series Engine

D: 9KM 1989 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
32	355905	Bolt	4	4	4	4
33	375599	Stud	3	3	3	3
34	375598	Stud	1	1	1	1
35	375587	Fitting	1	1	1	1
36	14349	Fitting (Pipe Plug)	1	1	1	1
37	388308	Bolt	4	4	4	..
38	15962	Fitting	1	1	1	..
39	150879	Fitting	1	..	..	..
39	388359	Plug	..	1	1	1
40	263728	Bracket	..	..	1	1
41	1320000	Oil Filter	1	1	1	1
42	288394	Sealant	AR	AR	AR	AR
42	b 1514915	Dipstick Tube	1	1	1	1
43	1510649	Dipstick	1	1	1	1
44	133696	Clamp	1	1	1	1
	381352	Kit-Gasket	1	1	1	1
	1312809	Kit-Gasket	1	1	1	1

FOOTNOTES:

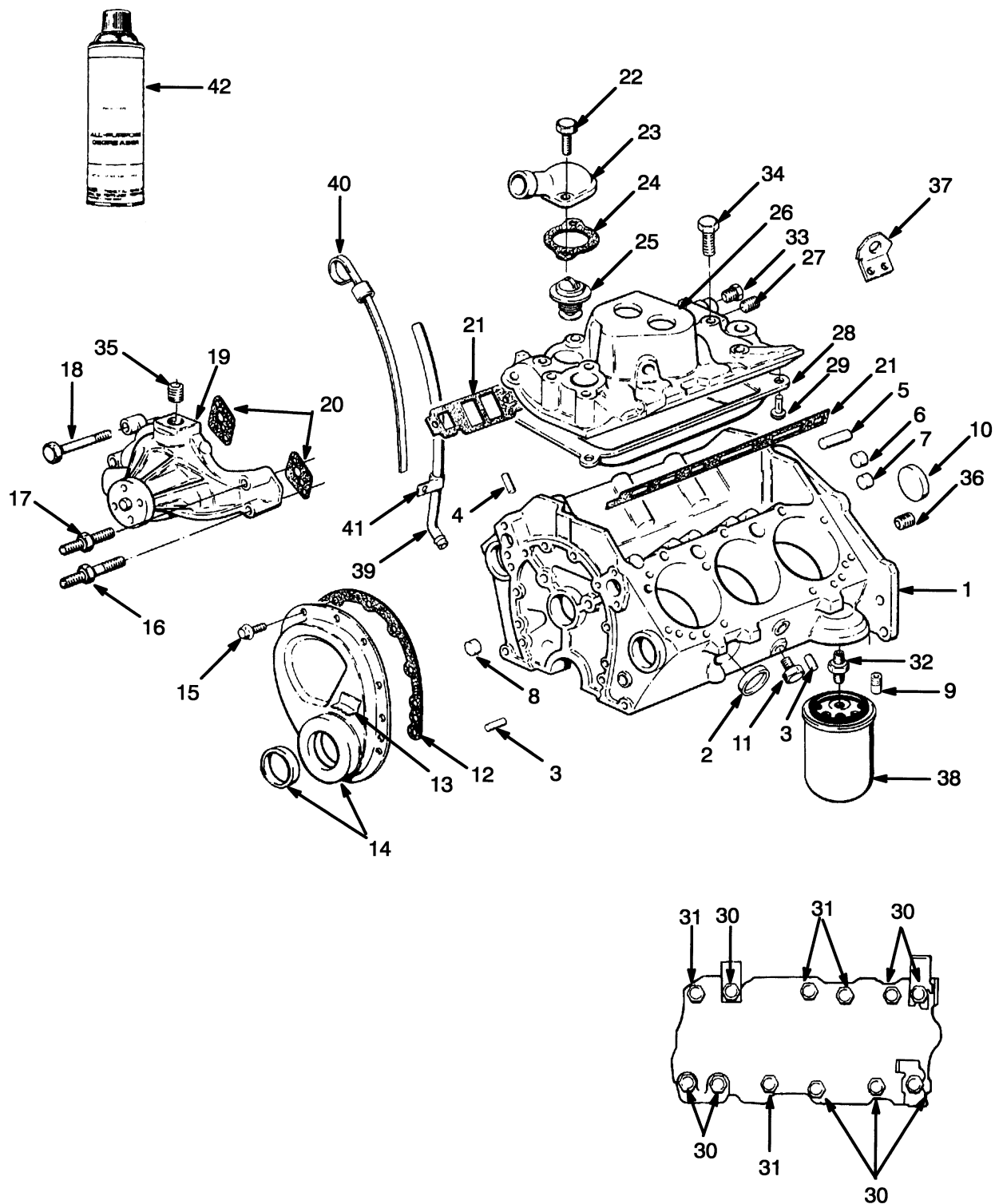
a Remanufactured Water Pump 3002545 R

b 5/2002 →

NOTES

[illegible]

CYLINDER BLOCK (FIGURE 2-11) GASOLINE AND LPG — 1990 THRU 1991 SERIES ENGINE (→ S/N F006A07082)



HP090125

CYLINDER BLOCK**GASOLINE AND LPG – 1990 THRU 1991 SERIES ENGINE (→ S/N F006A07082)****KEY:****A: 0KM 1990 Series Engine****B: 1KM 1991 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1317496	Engine Assy-Gas	1	..
	1334844	Engine Assy-Gas	..	1
1	1303792	Cylinder Block	1	1
2	159971	Plug	8	8
3	1450941	Pin	4	4
4	159977	Pin	4	4
5	1335499	Pin	..	2
5	1335499	Pin	2	..
6	1335498	Plug	2	2
7	150879	Fitting	1	1
8	388302	Plug	2	2
9	1358156	Valve	1	1
10	263788	Plug (Rear Bearing)	1	1
11	274232	Plug	2	2
12	375590	Gasket	1	1
13	375589	Pointer	1	1
14	1335059	Cover	1	1
14	1374107			
	1690267	Oil Seal	1	1
15	370169	Kit-Screw	12	12
16	263826	Stud	1	1
17	185768	Capscrew (RH)	1	1
17	263827	Stud (LH)	1	1
18	221506	Capscrew	1	1
19	133469	Capscrew	6	6
19	369748	Washer	6	6
19	a 381355	Water Pump	1	1
20	263828	Gasket	2	2
21	1335060	Gasket	2	2
22	221499	Capscrew	2	2
23	246479	Water Outlet	1	1
24	1330725	Gasket	1	1
25	231522	Thermostat (180° F)	1	1
26	375593	Manifold	1	1
27	1335241	Plug	..	1
27	375595	Plug	1	..
28	375594	Guard	1	1
29	1335213	Stud	1	1
30	375597	Bolt	9	9
31	1335214	Bolt	..	4
31	355905	Bolt	4	..
32	375587	Fitting	1	1
33	1331341	Plug	1	1
34	388308	Bolt	4	4
35	15962	Fitting	1	1

CYLINDER BLOCK

GASOLINE AND LPG – 1990 THRU 1991 SERIES ENGINE (→ S/N F006A07082)

KEY:

A: 0KM 1990 Series Engine

B: 1KM 1991 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
36	388359	Plug	1	1
36	388359	Plug	1	1
37	263728	Bracket	1	1
38	1320000	Oil Filter	1	1
39	288394	Sealant	AR	AR
39	369139	Dipstick Tube	1	1
40	b 1510649	Dipstick	1	1
40	c 1510649	Dipstick	1	1
41	133696	Clamp	1	1
42	178297	Degreaser	AR	AR
	381352	Kit-Gasket	1	1
	1312809	Kit-Gasket	1	1

FOOTNOTES:

a Remanufactured Water Pump 3002545 R

c S/N F006A11559Z →

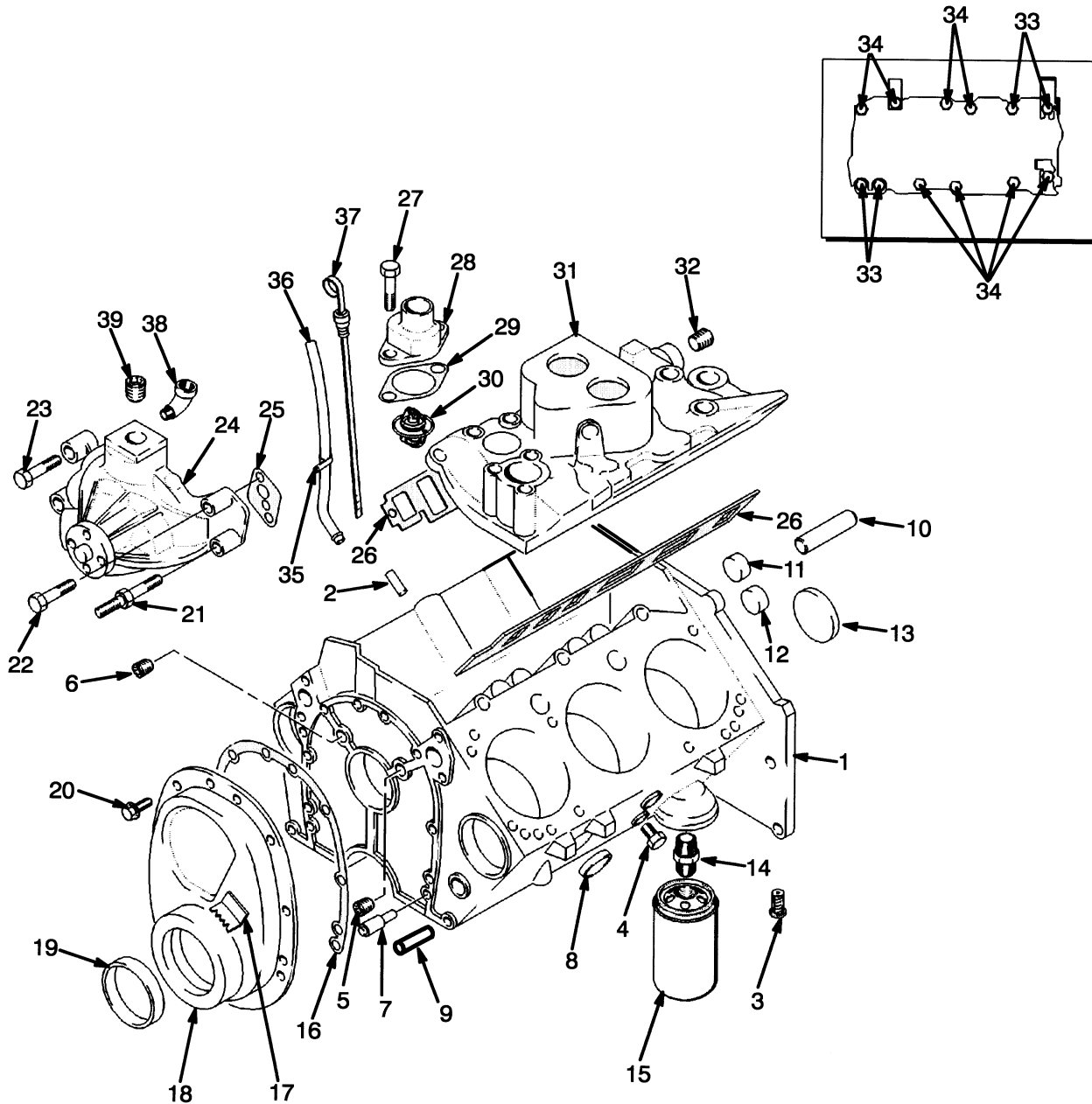
b → S/N F006A11558Z

NOTES

[illegible]

CYLINDER BLOCK (FIGURE 2-12)

GASOLINE AND LPG — 2KM 1992 SERIES ENGINE (S/N F006A07083 →)



HP090126

CYLINDER BLOCK **GASOLINE AND LPG – 2KM 1992 SERIES ENGINE (S/N F006A07083 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	1331603	Engine Assy-Gas	1
1	1343167	Engine Assy	1
2	159977	Pin	4
3	1358156	Valve	1
4	274232	Plug	4
5	1335498	Plug	1
6	388302	Plug	1
7	1450941	Pin	2
8	169718	Plug	8
9	1450941	Pin	2
10	1335499	Pin	2
11	1335216	Plug	1
12	375601	Pin (CR/SKF RR Seal Retainer)	1
13	263788	Plug (Rear Bearing)	1
14	375587	Fitting	1
15	1320000	Oil Filter	1
16	375590	Gasket	1
17	375589	Pointer	1
18	1347918	Cover	1
19	1374107		
	1690267	Oil Seal	1
20	369769	Screw	10
21	263827	Stud	1
22	185768	Capscrew	1
23	221506	Capscrew	1
24	133469	Capscrew	6
24	1339962	Bearing	1
24	1460322	Gasket	1
24	369748	Washer	6
24	a 381355	Water Pump	1
25	263828	Gasket	2
26	1338675	Kit-Gasket	1
27	161195	Screw	2
28	1343168	Water Outlet	1
29	1330725	Gasket	1
30	231522	Thermostat (180° F)	1
31	1338224	Manifold	1
32	375595	Plug	4
33	1335241	Plug	4
34	375597	Bolt	8
35	133696	Clamp	1
36	288394	Sealant	AR
36	c 1514915	Dipstick Tube	1
37	b 1510649	Dipstick	1
37	d 1510649	Dipstick	1
38	19521	Fitting (Gasoline)	1
39	15962	Fitting	1

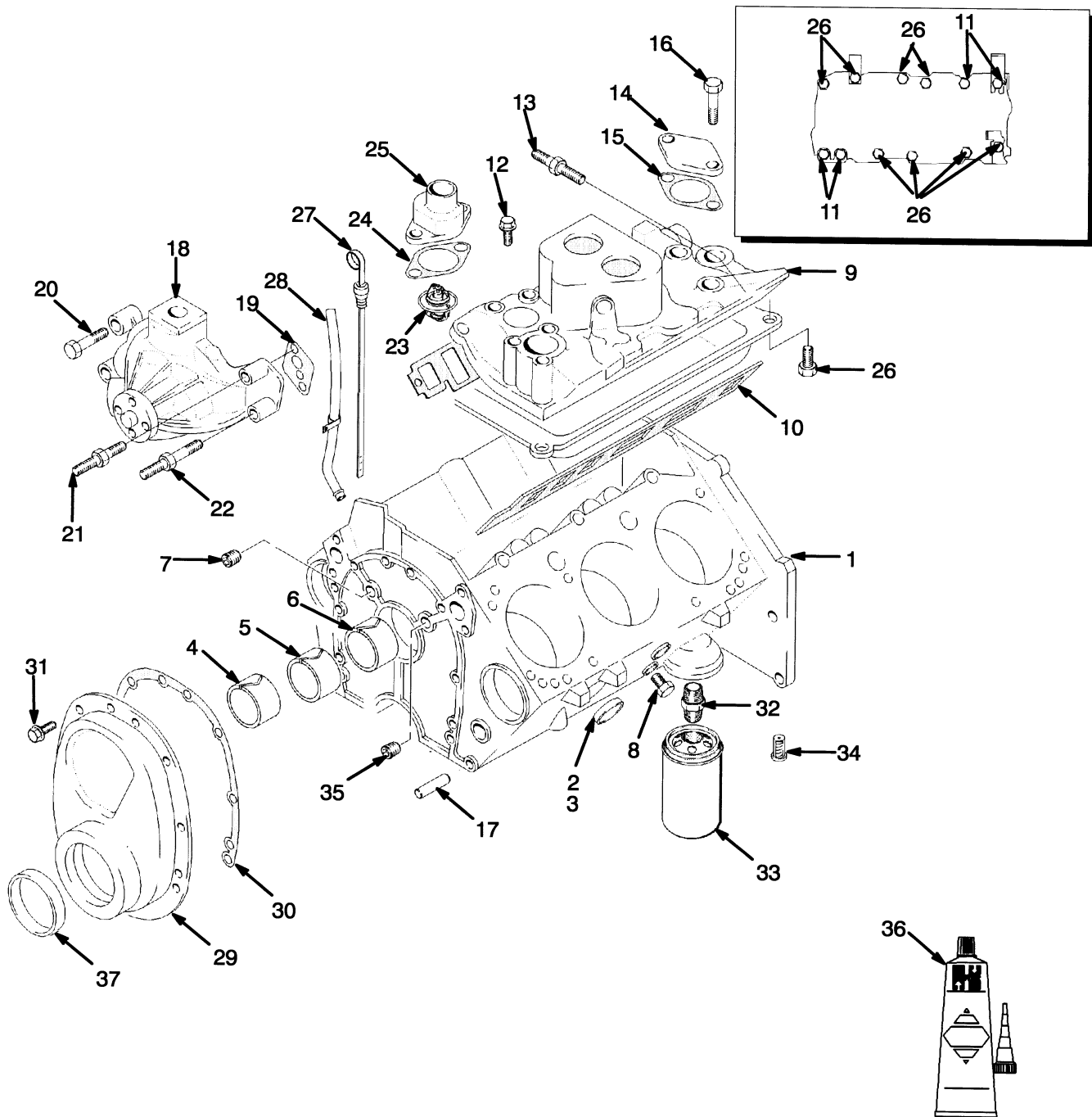
FOOTNOTES:

- a** Remanufactured Water Pump 3002545 R
- b** → S/N F006A11558Z
- c** 5/2002 →
- d** S/N F006A11559Z →

NOTES

[illegible]

CYLINDER BLOCK (FIGURE 2-13) GASOLINE AND LPG — 3KM 1993 SERIES ENGINE



HP090127

CYLINDER BLOCK **GASOLINE AND LPG – 3KM 1993 SERIES ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
	1356929	Engine Assy-Gas	1
1	1371221	Cylinder Block	1
2	169718	Plug	8
3	1371222	Plug	8
4	301955	Bushing	2
5	301956	Bushing	1
6	301957	Bushing	1
7	388302	Plug	2
8	274232	Plug	4
9	1374111	Intake Manifold (Inlet)	1
10	1371230	Gasket (RH)	1
10	1371231	Gasket (LH)	1
11	1335241	Plug	2
12	1335488	Bolt	1
13	375598	Stud	2
14	1374112	Cover (EGR)	1
15	1374113	Gasket (EGR)	1
16	1371232	Bolt (EGR)	2
17	1450941	Pin	6
18	381355	Water Pump	1
19	263828	Gasket	2
20	221506	Capscrew	1
21	185768	Capscrew	1
22	263827	Stud	1
23	1374109	Thermostat (180° F)	1
24	1374110	Seal	1
25	1371229	Water Outlet	1
26	375597	Bolt	8
27	1510649	Dipstick	1
28	a 1514915	Dipstick Tube (Dipstick)	1
29	1347918	Cover	1
30	375590	Gasket	1
31	1374108	Bolt	10
32	375587	Fitting	1
33	1320000	Oil Filter	1
34	1358156	Valve	1
35	1358079	Plug	1
36	280472	Sealant	AR
37	1374107		
	1690267	Oil Seal	1
	1376889	Kit-Gasket	1

FOOTNOTES:

a 5/2002 →

This technical drawing is an exploded view of a mechanical assembly, likely a pump or engine component. It features a central rectangular housing (1) with two large circular ports. Various components are shown in their relative positions, indicated by numbered callouts:

- 1**: Main rectangular housing.
- 2**: Small cylindrical pin or plug.
- 3**: Two stacked O-rings or seals.
- 4**: A bracket or support arm.
- 5**: A small vertical pin or screw.
- 6**: A small circular component, possibly a washer or seal.
- 7**: A small circular component, possibly a washer or seal.
- 8**: A large, complex, multi-ported component, likely a pump head or valve assembly.
- 9**: A small pin or plug.
- 10**: Several curved, C-shaped components, possibly clips or guides.
- 11**: Several curved, C-shaped components, possibly clips or guides.
- 12**: A small circular component, possibly a washer or seal.
- 13**: A small cylindrical component, possibly a pin or plug.
- 14**: A small rectangular component, possibly a pin or plug.
- 15**: A small rectangular component, possibly a pin or plug.
- 16**: A small circular component, possibly a washer or seal.
- 17**: A small circular component, possibly a washer or seal.
- 18**: A small rectangular component, possibly a pin or plug.
- 19**: A small rectangular component, possibly a pin or plug.
- 20**: A small rectangular component, possibly a pin or plug.
- 21**: A small rectangular component, possibly a pin or plug.
- 22**: A small rectangular component, possibly a pin or plug.
- 23**: A small rectangular component, possibly a pin or plug.
- 24**: A small rectangular component, possibly a pin or plug.
- 25**: A small rectangular component, possibly a pin or plug.
- 26**: A small circular component, possibly a washer or seal.
- 27**: A small rectangular component, possibly a pin or plug.

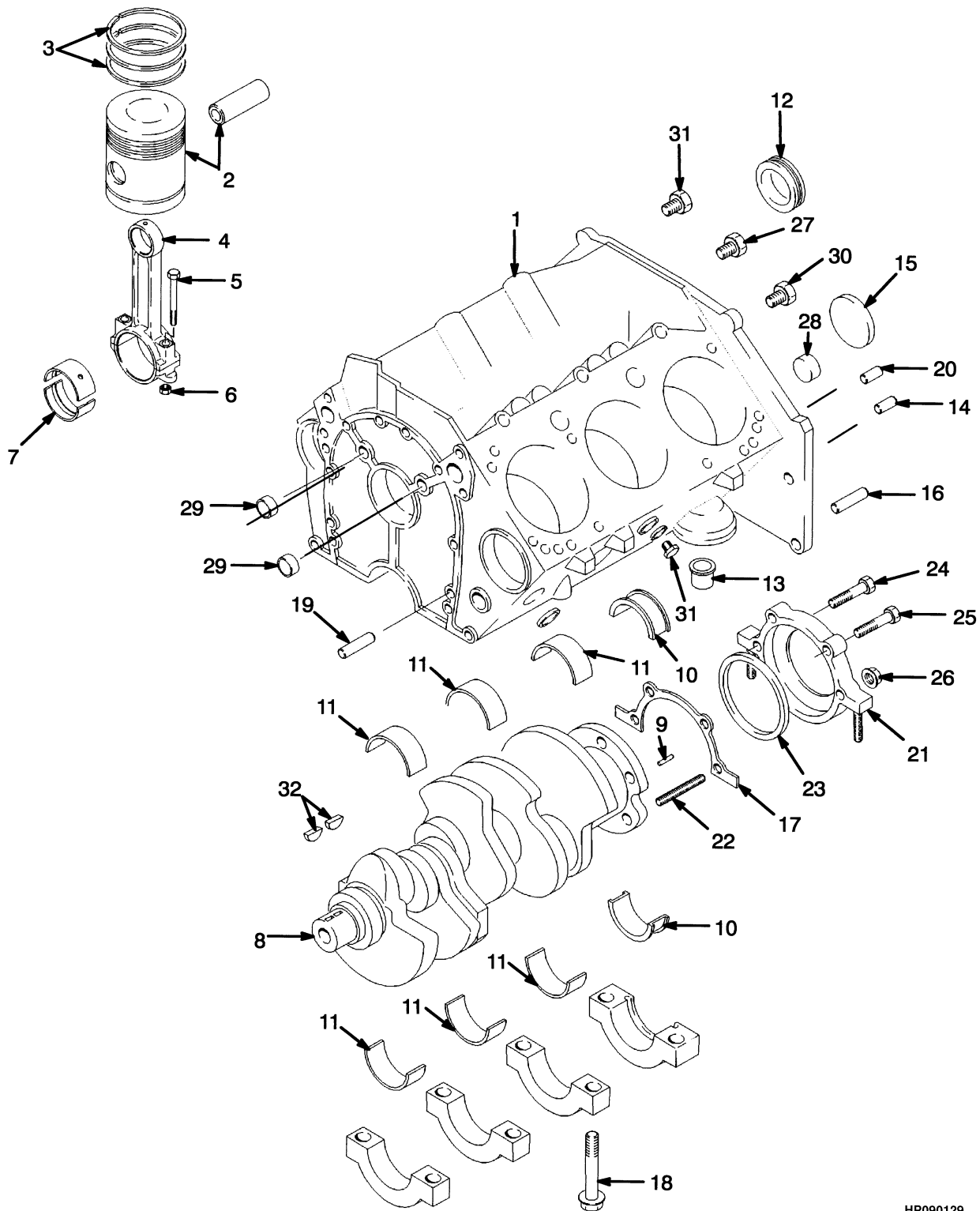
HP090128

CYLINDER BLOCK
GASOLINE AND LPG – 4LM 1994 SERIES ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1369493	Engine Assy-Gas	1
	1374249	Short Block	1
1		Block	1
2	b 1374309	Piston and Rod	6
2	a 1374310	Piston (Hi-Limit)	6
3	b 1374308	Piston Ring	1
3	a 1374311	Piston Ring (Hi-Limit) (0.030 in.)	1
4	1360179	Piston Rod	6
5	1360182	Bolt	2
6	1375954	Nut	2
7	a 1324011	Piston Rod Bearing (0.010 in.)	6
7	a 1324012	Bearing (0.020 in.)	6
7	a 1324013	Bearing (0.030 in.)	6
7	a 1324014	Bearing (0.040 in.)	6
7	b 375579	Bearing	6
8	375570	Crankshaft	1
9	375571	Pin	1
10	b 375551	Kit-Crankshaft Bearing	1
11	a 1324015	Crankshaft Bearing (0.010 in.)	1
11	a 1324016	Bearing (0.020 in.)	1
11	a 1324017	Crankshaft Bearing (0.030 in.)	1
11	a 1324018	Bearing (0.040 in.)	1
12	1374314	Bearing	1
13	1358156	Valve	1
14	159977	Pin	2
15	1450941	Pin	1
16	375601	Pin (CR/SKF RR Seal Retainer)	1
17	1374313	Plug	1
18	1335499	Pin	1
19	1335227	Retainer	1
20	388364	Stud	2
21	1335228	Seal	1
22	1500884	Gasket	1
23	375575	Bolt	1
24	375602		
	1335490	Bolt	1
25	388313	Nut	1
26	274232	Plug	2
27	263842	Bolt	8

FOOTNOTES:**a** Optional**b** Standard

CYLINDER BLOCK (FIGURE 2-15) GASOLINE AND LPG — 5LM 1995 SERIES ENGINE



HP090129

CYLINDER BLOCK
GASOLINE AND LPG – 5LM 1995 SERIES ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1377785	Short Block	1
	1377796	Engine Assy-Gas	1
1		Block	1
2	a 1374309	Piston and Rod	6
2	1380307	Kit-Piston (0.030 in.)	6
3	a 1374308	Piston Ring	1
3	1374311	Piston Ring (0.030 in.)	1
4	1360179	Piston Rod	6
5	1360182	Bolt	2
6	1375954	Nut	2
7	1324011	Piston Rod Bearing (0.010 in.)	6
7	1324012	Bearing (0.020 in.)	6
7	1324013	Bearing (0.030 in.)	6
7	1324014	Bearing (0.040 in.)	6
7	a 375579	Bearing	6
8	1377106	Crankshaft	1
9	375571	Pin	1
10	a 1307958	Kit-Crankshaft Bearing (.030 in.)	1
11	1324015	Crankshaft Bearing (0.010 in.)	1
11	1324016	Bearing (0.020 in.)	1
11	1324017	Crankshaft Bearing (0.030 in.)	1
11	1324018	Bearing (0.040 in.)	1
11	a 375551	Kit-Crankshaft Bearing	1
12	1374314	Bearing (Shaft RR)	1
13	1358156	Valve	1
14	159977	Pin	4
15	1374313	Plug	1
16	1335499	Pin	2
17	1500884	Gasket	1
18	263842	Bolt	8
19	1450941	Pin	2
20	375601	Pin (CR/SHF RR Seal Retainer)	1
21	1335227	Retainer	1
22	388364	Stud	2
23	1335228	Seal	1
24	375575	Bolt	1
25	375602		
	1335490	Bolt	1
26	1335226	Nut	1
27	1331341	Plug (LH) (3/8 NPT)	1
27	274232	Plug (RH) (1/4 NPT)	1
28	159971	Plug	8
29	1358079	Plug (LH)	1
29	388302	Plug (RH)	1
30	1331341	Plug	1
31	274232	Plug	3
32	1335057	Key	2

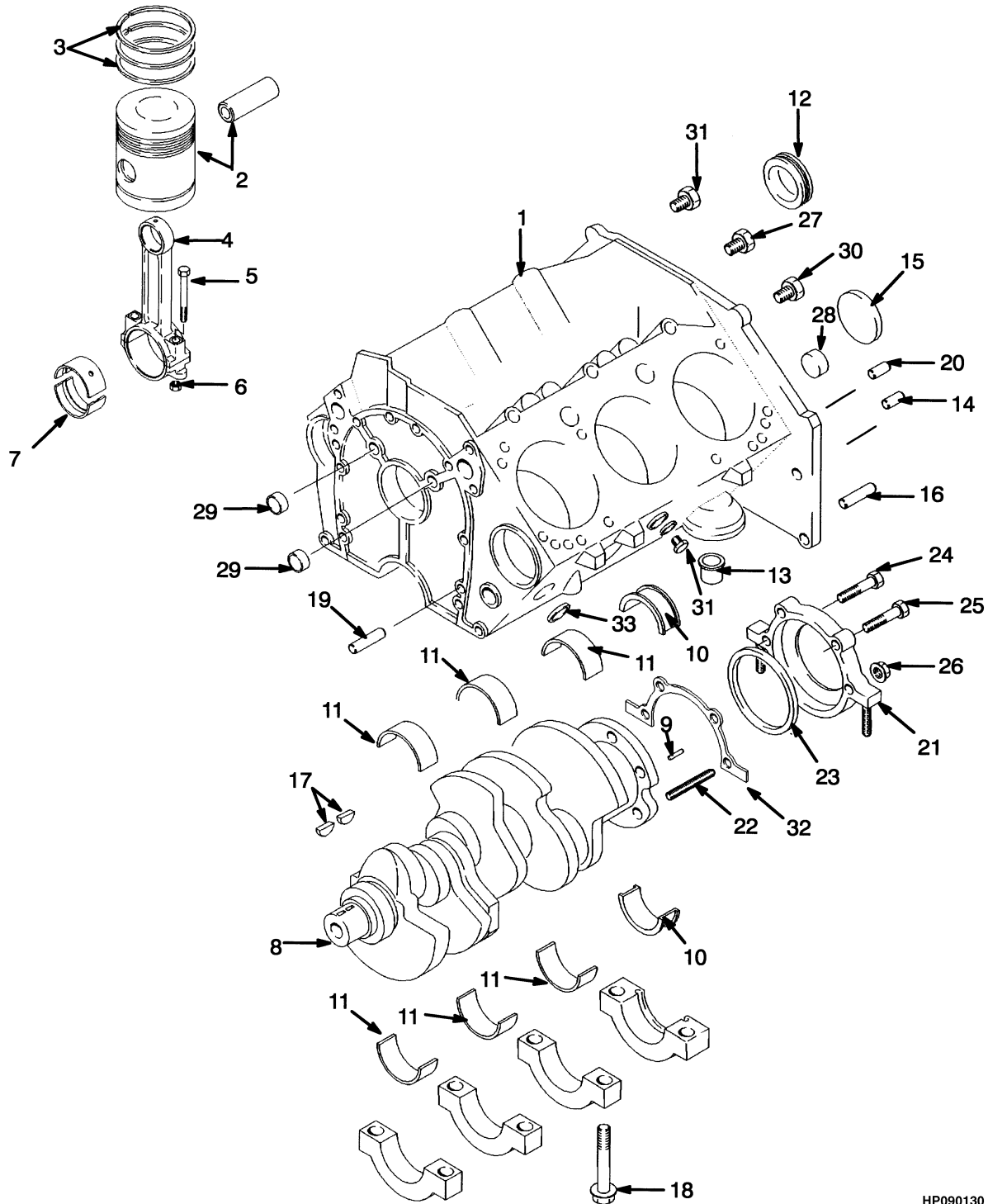
FOOTNOTES:

a Standard

NOTES

[illegible]

CYLINDER BLOCK (FIGURE 2-16) GASOLINE AND LPG — 1996 THRU 1999 SERIES ENGINES



HP090130

CYLINDER BLOCK

GASOLINE AND LPG – 1996 THRU 1999 SERIES ENGINES

KEY:**A: 6LX 1996 Series Engine****B: 7LX 1997 Series Engine****C: 8LX 1998 Series Engine****D: 9LX 1999 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1380300	Engine Assy-Gas	1	..	..	..
	1393582	Engine Assy-Gas	..	1	..	..
	1453581	Engine Assy-Lpg	..	..	1	..
	1459646	Engine Assy-Lpg	..	..	..	1
1	1460385	Short Block	1	1	1	1
2	a 1390759	Kit-Piston with Pin (Standard)	6	6	6	6
2	1390760	Kit-Piston with Pin (0.020 O/S) (0,5 mm)	6	6	6	6
3	a 1390761	Kit-Piston Ring	6	6	6	6
3	1390765	Kit-Piston Ring (0.020 O/S) (0,5 mm)	6	6	6	6
4	1360179	Piston Rod	6	6	6	6
5	1360182	Bolt	2	2	2	2
6	1375954	Nut	2	2	2	2
7	a 1390770	Piston Rod Bearing (Connecting Rod)	6	6	6	6
7	375580	Piston Rod Bearing (Undersize) (0.0055 in.) (0.014 in.)	6	6	6	6
8	1377106	Crankshaft	1	1	1	..
8	1460386	Crankshaft	..	..	..	1
9	375571	Pin	1	1	1	1
10	a 1307958	Kit-Crankshaft Bearing (.030 in.) (Rear)	1	1	1	..
10	1309839	Bearing Set (0.010 in. O/S) (Rear) (0.010 in.)	1	1	1	..
10	1390773	Bearing Set (0.001 in.) (Rear) (0.001 in.)	1	1	1	1
10	1390774	Bearing Set (.002 in.) (Rear) (0.002 in.)	1	1	1	..
11	1390771	Kit-Crankshaft Bearing (0.001 in.)	3	3	3	..
11	1390772	Crankshaft Bearing (0.002 in.)	3	3	3	..
11	a 1460737	Kit-Crankshaft Bearing	..	..	..	3
11	1460738	Bearing Set (0.020 in. O/S) (0.020 in.)	..	..	..	3
11	263758	Crankshaft Bearing (0.010 in.)	3	3	3	..
11	263759	Crankshaft Bearing (0.020 in.)	3	3	3	..
11	a 375551	Kit-Crankshaft Bearing	1	1	1	..
12	1374314	Bearing (Shaft RR)	1	1	1	1
13	1358156	Valve	1	1	1	1
14	159977	Pin	4	4	4	8
15	1374313	Plug	1	1	1	1
16	1335499	Pin	2	2	2	2
17	1335057	Key	2	..	..	..
17	1451319	Key	..	2	2	1
18	263842	Bolt	10	10	10	10
19	1450941	Pin	..	..	..	2
19	1450941	Pin	2	..	..	..
19	1451329	Pin	..	2	2	..
20	375601	Pin (CR/SKF RR Seal Retainer)	1	1	1	1
21	1335227	Retainer	1	..	..	..
21	1450554	Retainer	..	1	1	..

CYLINDER BLOCK

GASOLINE AND LPG – 1996 THRU 1999 SERIES ENGINES

KEY:

A: 6LX 1996 Series Engine

B: 7LX 1997 Series Engine

C: 8LX 1998 Series Engine

D: 9LX 1999 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
21	1460330	Retainer	..	..	..	1
22	1450555	Stud	..	2	2	2
22	388364	Stud	2	..	..	..
23	1335228	Seal	1	..	..	..
23	1450556	Seal	..	1	1	..
23	1460331	Seal	..	..	..	1
24	375575	Bolt	1	1	1	2
25	375602					
	1335490	Bolt	1	1	1	1
26	1335226	Nut	1	1	1	1
27	1331341	Plug (LH) (3/8 NPT)	1	1	1	1
27	274232	Plug (RH) (1/4 NPT)	1	1	1	1
28	159971	Plug	6	6	6	6
29	1358079	Plug (LH)	1	1	1	3
29	388302	Plug (RH)	1	1	1	2
30	1331341	Plug	1	1	1	1
31	274232	Plug	3	3	3	3
32	1500884	Gasket	1	1	1	1
33	169718	Plug	5	5	5	5

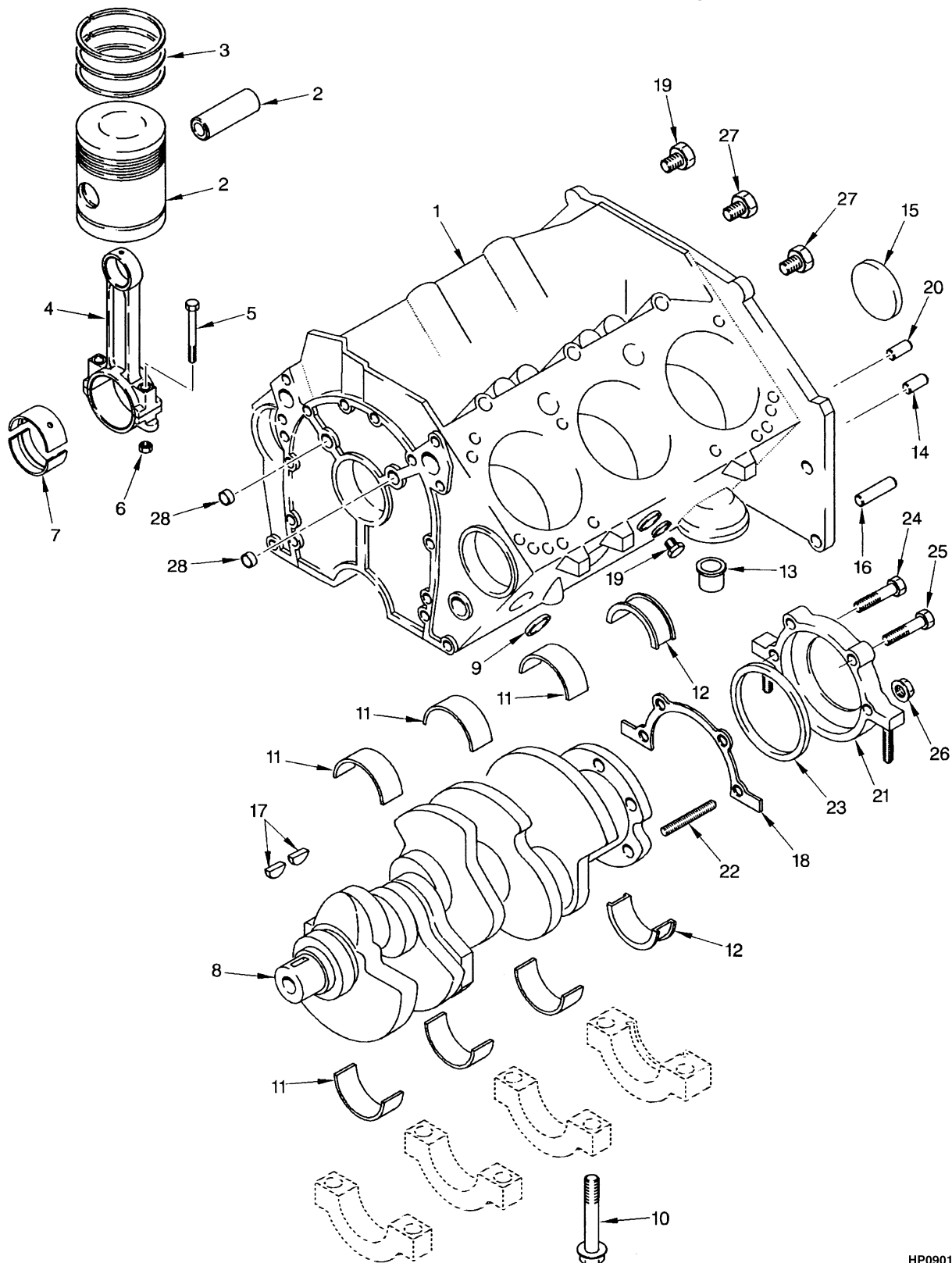
FOOTNOTES:

a Standard

NOTES

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

CYLINDER BLOCK (FIGURE 2-17) GASOLINE AND LPG — 2000 SERIES ENGINE



HP090131

CYLINDER BLOCK
GASOLINE AND LPG – 2000 SERIES ENGINE**KEY:****A: 0LX 2000 Series Engine****B: 1LX 2001 Series Engine****C: 2MY 2002 Series Engine****D: 3MY 2003 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1467585	Engine Assy-Lpg	1	..	..	..
	1485262	Engine Assy-Lpg	..	1	..	..
	1506843	Engine Assy-Lpg	..	..	1	..
	b 1524200	Engine Assy-Lpg	..	..	..	1
	c 1585577	Engine Assy-Gas (4MY 2004 Series Engine)	..	..	..	1
1	1460385	Short Block	1	..	..	..
1	1501157	Short Block	..	1	..	..
1		Short Block Assembly	..	..	1	1
2	a 1390759	Kit-Piston with Pin (Standard)	6	6	6	6
2	1390760	Kit-Piston with Pin (0.020 O/S) (0,5 mm)	6	6	6	6
3	a 1390761	Kit-Piston Ring	6	6	6	6
3	1390765	Kit-Piston Ring (0.020 O/S) (0,5 mm)	6	6	6	6
4	1360179	Piston Rod	6	6	6	6
5	1360182	Bolt	2	2	2	2
6	1330450	Nut	2	2	2	2
7	a 1390770	Piston Rod Bearing (Connecting Rod)	6	6	6	6
7	375580	Piston Rod Bearing (Undersize) (0.0055 in.)	6	6	6	6
8	1460386	Crankshaft	1	1	1	1
9	159971	Plug	5	5	..	..
9	169718	Plug	..	..	5	5
10	263842	Bolt	10	10	10	10
11	a 1460737	Kit-Crankshaft Bearing (Crankshaft)	3	3	3	3
11	1460738	Bearing Set (0.020 in. O/S) (Crankshaft)	3	3	3	3
12	1390773	Bearing Set (0.001 in.) (Crankshaft)	1	1	1	1
13	1358156	Valve	1	1	..	..
13	1514968	Valve	..	..	1	1
14	159977	Pin	4	4	4	4
15	1374313	Plug	1	1	1	1
16	1335499	Pin	2	2	2	2
17	1451319	Key	1	1	1	1
18	1500884	Gasket	1	1	1	1
19	274232	Plug	5	5	4	4
20	375601	Pin (CR/SHF RR Seal Retainer)	1	1	1	1
21	1460330	Retainer	1	1	1	1
22	1450555	Stud	2	2	2	2
23	1460331	Seal	1	1	1	1
24	375575	Bolt	2	2	2	2
25	375602					
	1335490	Bolt	1	1	1	1
26	1335226	Nut	1	1	1	1
27	1331341	Plug	3	3	3	3
28	1358079	Plug (LH)	3	3	3	3
28	388302	Plug (RH)	2	2	2	2

FOOTNOTES:

a Standard

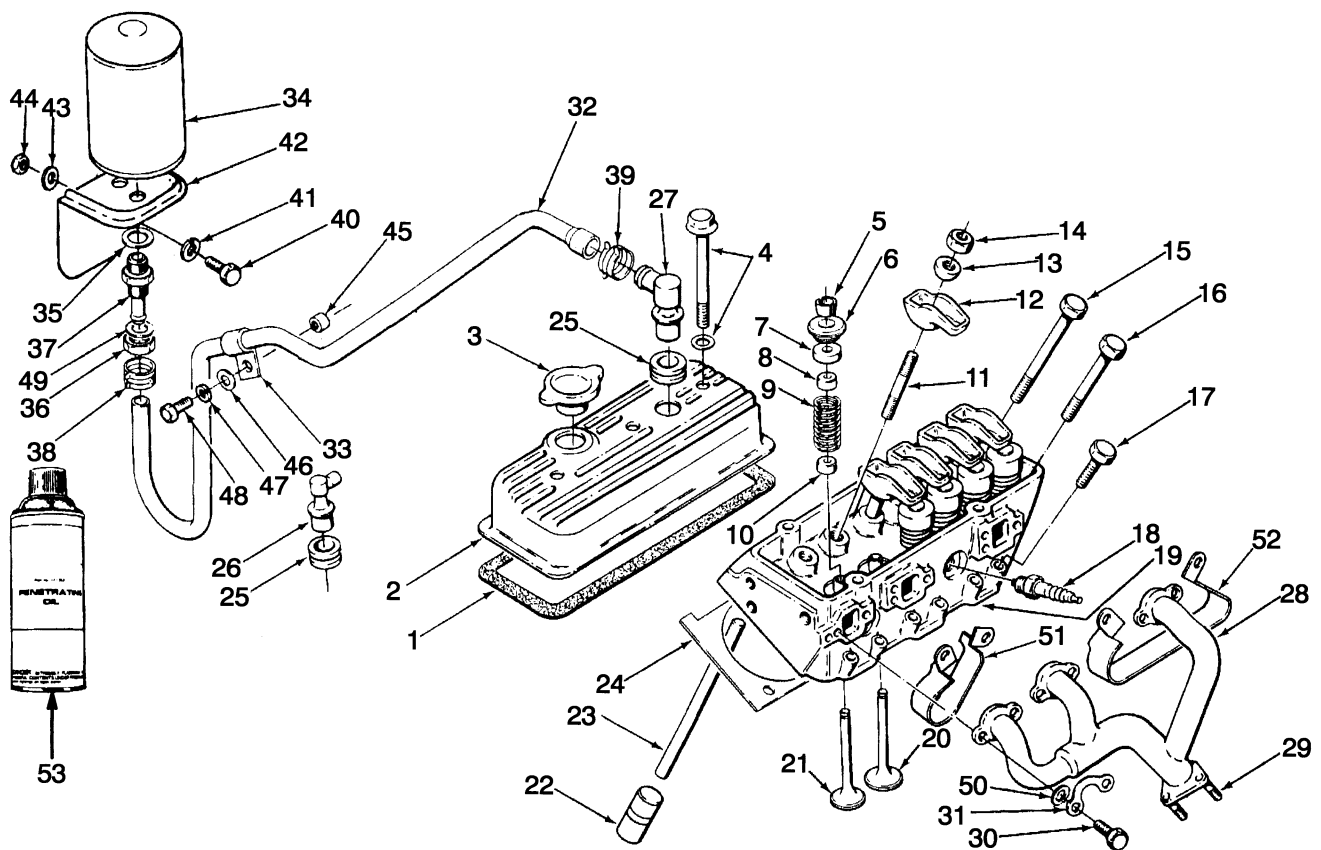
b → S/N F006V02324A

c S/N F006V02325A →

NOTES

[illegible]

CYLINDER HEAD (FIGURE 2-18) GASOLINE AND LPG — 1986 THRU 1989 SERIES ENGINE



HP090132

CYLINDER HEAD

GASOLINE AND LPG – 1986 THRU 1989 SERIES ENGINE

KEY:**A: 6KM 1986 Series Engine****B: 7KM 1987 Series Engine****C: 8KM 1988 Series Engine****D: 9KM 1989 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1302960	Engine Assy-Gas	..	..	1	..
	1312468	Engine Assy-Gas	..	..	..	1
	373100	Engine Assy-Gas	1	..	..	..
	383134	Engine Assy-Gas	..	1	..	..
1	375620	Gasket	2	2	2	2
2	1334422	Cover (RH)	1	1	1	1
2	375617	Cover (LH)	1	1	1	1
3	1314274	Cap	1	1	1	1
4	1335215	Bolt	..	6	6	6
4	375619	Gasket	6	..	..	..
4	388358	Bolt	6	..	..	..
5	263750	Valve Stop	24	24	24	24
6	149867	Exhaust Valve (Exhaust Valve)	6	6	6	6
7	314539	Oil Shield	12	12	12	12
8	145173	Seal (Valve)	12	12	12	12
9	263748	Spring	12	12	12	12
10	375564	Seal	6	6	6	6
10	375565	Seal	6	6	6	6
11	149857	Stud (0.03 in.)	12	12	12	12
11	149858	Stud (0.01 in.)	12	12	12	12
12	1307964	Rocker Arm	12	12	12	12
13	281097	Ball	12	12	12	12
14	370150	Nut	12	12	12	12
15	375567	Bolt (03.75 in.)	10	10	10	10
16	375568	Bolt (3.00 in.)	4	4	4	4
17	263847	Bolt (1.75 in.)	12	12	12	12
18	197888	Spark Plug	6	..	..	..
18	388361	Spark Plug	..	6	6	6
19	1306675	Cylinder Head	2	2	..	..
19	1351991	Cylinder Head	..	..	2	2
20	375557	Inlet Valve (Standard)	6	6	6	6
20	375558	Inlet Valve (0.0035 in. O/S) (0.03 in.)	6	6	6	6
20	375559	Inlet Valve (0.0155 in. O/S) (0.02 in.)	6	6	6	6
20	375560	Inlet Valve (0.030 in.)	6	6	6	6
21	254384	Exhaust Valve (0.02 in.)	..	6	6	6
21	265512	Exhaust Valve (Standard)	6	6	6	6
21	375562	Exhaust Valve (0.02 in.)	6	..	..	..
21	375563	Exhaust Valve (0.030 in.)	6	..	..	..
22	263839	Valve Lifter	12	..	..	..
22	388357	Valve Lifter	..	12	12	12
23	369774	Push Rod	12	..	..	..
23	388356	Push Rod	..	12	12	12
24	388350	Cylinder Head Gasket	2	2	2	2

CYLINDER HEAD

GASOLINE AND LPG – 1986 THRU 1989 SERIES ENGINE

KEY:**A:** 6KM 1986 Series Engine**B:** 7KM 1987 Series Engine**C:** 8KM 1988 Series Engine**D:** 9KM 1989 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
25	164050	Grommet	2	2	2	2
26	321734	Pcv Valve	1	1	1	1
27	379407	Fitting	1	1	1	1
28	1317472	Manifold	2	2	2	2
29	352903	Stud (LH)	3	3	3	3
29	370168	Stud (RH)	3	3	3	3
30	16379	Capscrew	12	12	12	12
31	366686	Lock	6	6	6	6
32	353307	Hose	1	1	1	1
33	325897	Clamp	1	1	1	1
34	1350036	Oil Filter	1	1	1	1
35	1300152	Washer	1	1	1	1
36	14761	Fitting -Lock Nut	1	1	1	1
37	379400	Fitting	1	1	1	1
38	379405	Clamp	1	1	1	1
39	353199	Clamp	1	1	1	1
40	292501	Capscrew	1	1	1	1
41	320156	Washer	1	1	1	1
42	186998	Bracket	1	1	1	1
43	292680	Washer	1	1	1	1
44	136687	Nut	1	1	1	1
45	342962	Spacer	1	1	1	1
46	388049					
	292682	Lockwasher	1	1	1	1
47	320159	Washer	1	1	1	1
48	16828	Capscrew	1	1	1	1
49	15162	Lockwasher	1	1	1	1
50	1304392	Washer	12	12	12	12
51	ab 1316494	Shield	..	..	..	2
52	ab 1316488	Shield	..	..	..	2
53	171352	Lubricant	AR	AR	AR	AR
	1312809	Kit-Gasket	1	1	1	1
	996211	Kit-Tune-Up	1	1	1	1
	996015	Kit-Tune-Up	1	1	1	1

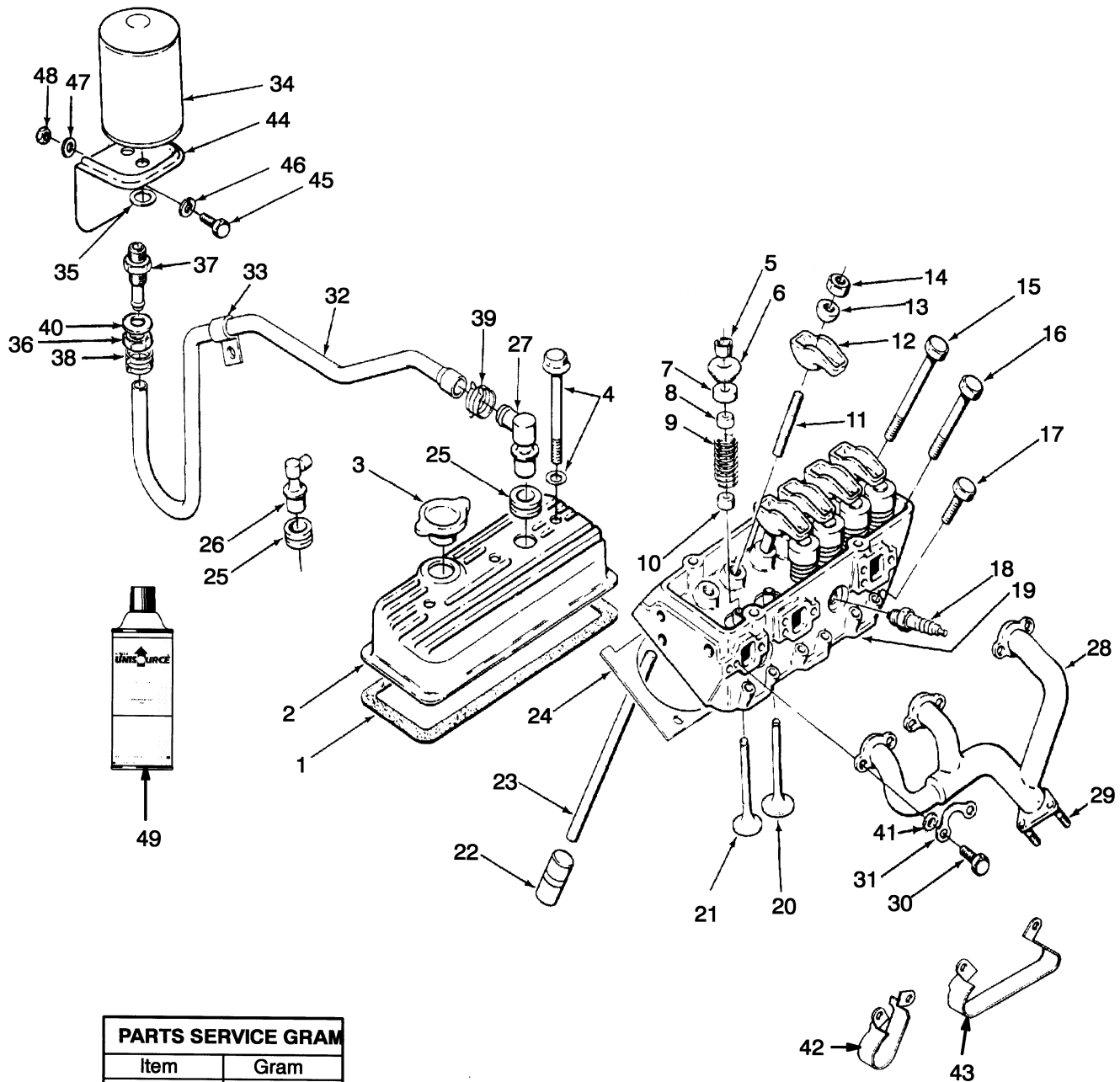
FOOTNOTES:**a** S/N F006A05278 →**b** S/N F006D01501 →

NOTES

[illegible]

CYLINDER HEAD (FIGURE 2-19)

GASOLINE AND LPG — 1990 THRU 1991 SERIES ENGINE (→ S/N F006A07082)



PARTS SERVICE GRAM	
Item	Gram
Engine	EE-42

HP090133

CYLINDER HEAD**GASOLINE AND LPG – 1990 THRU 1991 SERIES ENGINE (→ S/N F006A07082)****KEY:****A: 0KM 1990 Series Engine****B: 1KM 1991 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1317496	Engine Assy-Gas	1	..
	1334844	Engine Assy-Gas	..	1
1	375620	Gasket	2	2
2	1354803	Cover (RH)	1	1
2	375617	Cover (LH)	1	1
3	1335058	Cap (Oil Filter)	1	1
4	1335215	Bolt	6	6
5	263750	Valve Stop	24	24
6	149867	Exhaust Valve (Exhaust Valve)	6	6
6	312948	Cap (Inlet Valve)	6	6
7	314539	Oil Shield	12	12
8	145173	Seal (Valve)	12	12
9	263748	Spring	12	12
10	375564	Seal	6	6
10	375565	Seal	6	6
11	149857	Stud (0.03 in.)	12	12
11	149858	Stud (0.01 in.)	12	12
12	1307964	Rocker Arm	12	12
13	281097	Ball	12	12
14	370150	Nut	12	12
15	375567	Bolt (3.75 in.)	10	10
16	375568	Bolt (3.00 in.)	4	4
17	263847	Bolt (1.75 in.)	12	12
18	197888	Spark Plug	6	6
19	1351991	Cylinder Head	2	2
20	375557	Inlet Valve (Standard)	6	6
20	375558	Inlet Valve (0.0035 in. O/S) (3.00 in.)	6	6
20	375559	Inlet Valve (0.0155 in. O/S) (0.02 in.)	6	6
20	375560	Inlet Valve (0.030 in.)	6	6
21	254384	Exhaust Valve (0.02 in.)	6	6
21	265512	Exhaust Valve (Standard)	6	6
21	375562	Exhaust Valve (0.02 in.)	6	6
21	375563	Exhaust Valve (0.030 in.)	6	6
22	388357	Valve Lifter	12	12
23	388356	Push Rod	12	12
24	1386190	Cylinder Head Gasket	2	2
25	164050	Grommet	2	2
26	321734	Pcv Valve	1	1
27	379407	Fitting	1	1
28	1317472	Manifold	2	2
29	352903	Stud (LH)	3	3
29	370168	Stud (RH)	3	3
30	16379	Capscrew	12	12
31	366686	Lock	6	6
32	353307	Hose	1	1

CYLINDER HEAD

GASOLINE AND LPG – 1990 THRU 1991 SERIES ENGINE (→ S/N F006A07082)

KEY:

A: 0KM 1990 Series Engine

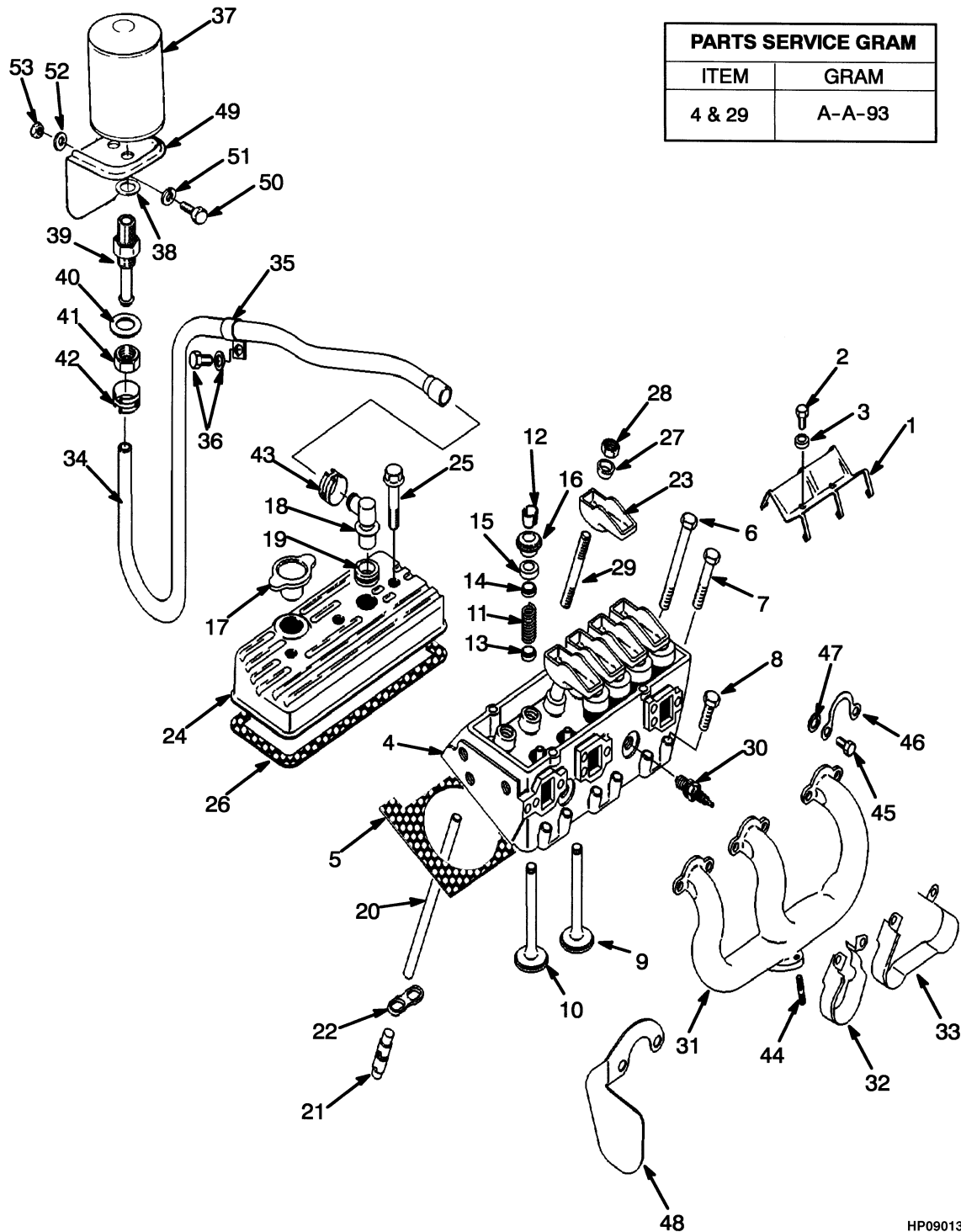
B: 1KM 1991 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
33	325897	Clamp	1	1
34	1350036	Oil Filter	1	1
35	1300152	Washer	1	1
36	14761	Fitting -Lock Nut	1	1
37	379400	Fitting	1	1
38	379405	Clamp	1	1
39	353199	Clamp	1	1
40	15162	Lockwasher	1	1
41	1304392	Washer	12	12
42	1316494	Shield	2	2
43	1316488	Shield	2	2
44	186998	Bracket	1	1
45	292501	Capscrew	2	2
46	320156	Washer	2	2
47	292680	Washer	2	2
48	136687	Nut	2	2
49	171352	Lubricant	AR	AR
	1312809	Kit-Gasket	1	1
	996211	Kit-Tune-Up	1	1

NOTES

[illegible]

CYLINDER HEAD (FIGURE 2-20) GASOLINE AND LPG — 2KM 1992 SERIES ENGINE



HP090134

CYLINDER HEAD **GASOLINE AND LPG – 2KM 1992 SERIES ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
	1331603	Engine Assy-Gas	1
	1343167	Engine Assy	1
1	1335063	Retainer	1
2	16374	Capscrew	4
3	197068	Washer	4
4	1351991	Cylinder Head	2
5	1386190	Cylinder Head Gasket	2
6	375567	Bolt (3.75 in.)	10
7	375568	Bolt (3.00 in.)	4
8	263847	Bolt (1.75 in.)	12
9	375557	Inlet Valve (Standard)	6
9	375558	Inlet Valve (0.0035 in. O/S) (0.03 in.)	6
9	375559	Inlet Valve (0.0155 in. O/S) (0.02 in.)	6
9	375560	Inlet Valve (0.030 in.)	6
10	254384	Exhaust Valve (0.02 in.)	6
10	265512	Exhaust Valve (Standard)	6
11	263748	Spring	12
12	263750	Valve Stop	24
13	375564	Seal (Inlet)	6
13	375565	Seal (Exhaust)	6
14	145173	Seal (Valve)	12
15	314539	Oil Shield	12
16	149867	Exhaust Valve	6
16	312948	Cap	6
17	1369481	Cap	1
18	321734	Pcv Valve	1
19	1339961	Grommet	1
20	388356	Push Rod	12
21	1343902	Valve Lifter	12
22	1335062	Guide	6
23	1307964	Rocker Arm	12
24	1354803	Cover (RH)	1
24	375617	Cover (LH)	1
25	1335215	Bolt	4
26	375620	Gasket	2
27	281097	Ball	12
28	370150	Nut	12
29	1360868	Stud	6
30	197888	Spark Plug	6
31	1317472	Manifold	2
32	1316494	Shield	2
33	1316488	Shield	2
34	1337871	Hose	1
35	325897	Clamp	1
36	15162	Lockwasher	1
36	292515	Capscrew	1
37	1350036	Oil Filter	1
38	1300152	Washer	1
39	379400	Fitting	1
40	15162	Lockwasher	1

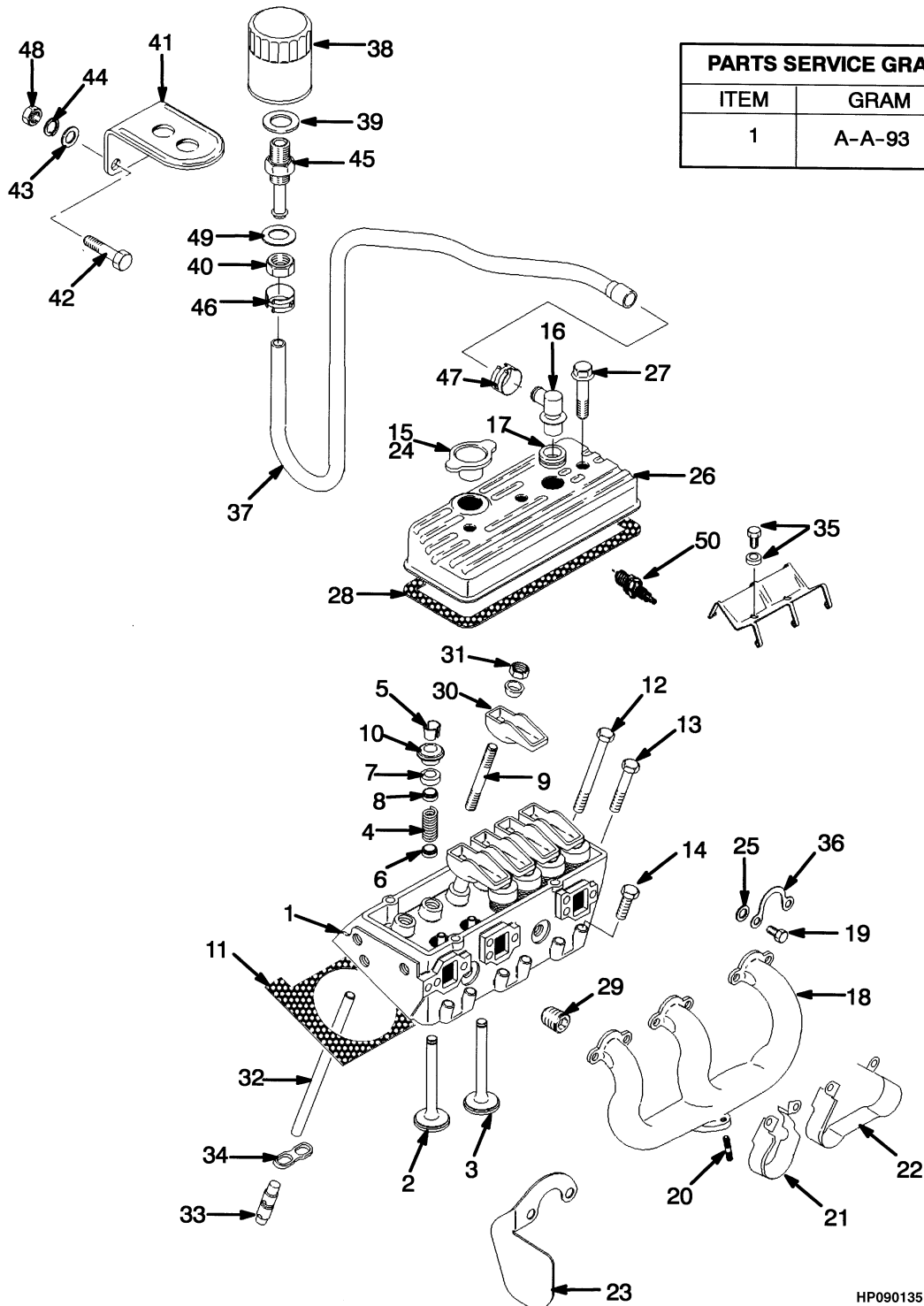
**CYLINDER HEAD
GASOLINE AND LPG – 2KM 1992 SERIES ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
41	14761	Fitting -Lock Nut	1
42	379405	Clamp	1
43	353199	Clamp	1
44	352903	Stud	6
45	16379	Capscrew	12
46	366686	Lock	6
47	1304392	Washer	12
48	352952	Heat Shield	1
49	186998	Bracket	1
50	292501	Capscrew	2
51	320156	Washer	2
52	292680	Washer	2
53	136687	Nut	2
	1312809	Kit-Gasket	1

NOTES

[illegible]

CYLINDER HEAD (FIGURE 2-21) GASOLINE AND LPG — 3KM 1993 SERIES ENGINE



HP090135

CYLINDER HEAD **GASOLINE AND LPG – 3KM 1993 SERIES ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
	1356929	Engine Assy-Gas	1
1	1454596	Cylinder Head	1
2	375557	Inlet Valve (Standard)	6
3	1374105	Exhaust Valve (Standard)	6
4	263748	Spring (Valve)	12
5	263750	Valve Stop (Valve)	24
6	375564	Seal (Inlet)	6
7	1374106	Seal	12
8	314539	Oil Shield (Valve Stem)	12
9	1358677	Stud	12
10	149867	Exhaust Valve	6
10	312948	Cap	6
11	1386190	Cylinder Head Gasket	2
12	375567	Bolt (3.75 in.)	10
13	375568	Bolt (3.00 in.)	4
14	263847	Bolt (1.75 in.)	12
15	1369481	Cap (Optional)	1
15	1369490	Cap	1
16	321734	Pcv Valve	1
17	1339961	Grommet	2
18	1317472	Manifold (Exhaust)	2
19	16379	Capscrew	12
20	352903	Stud	6
21	1316494	Shield	2
22	1316488	Shield (Spark Plug)	2
23	352952	Heat Shield	1
24	1369485	Cover	1
25	1304392	Washer	12
26	1354803	Cover (RH)	1
26	375617	Cover (LH)	1
27	1358047	Bolt	12
28	375620	Gasket (Valve Cover)	2
29	1331341	Plug	5
30	1307964	Rocker Arm	12
31	1358043	Nut (Rocker Arm)	12
32	388356	Push Rod	12
33	1343902	Valve Lifter	12
34	1374115	Guide	6
35	1371233	Bolt	4
36	366686	Lock	6
37	1337872	Hose (Breather)	1
38	1350036	Oil Filter	1
39	1300152	Washer	1
40	14761	Fitting -Lock Nut	1
41	186998	Bracket	1
42	292501	Capscrew	2
43	320156	Washer	2
44	292680	Washer	2
45	379400	Fitting	1
46	379405	Clamp	1

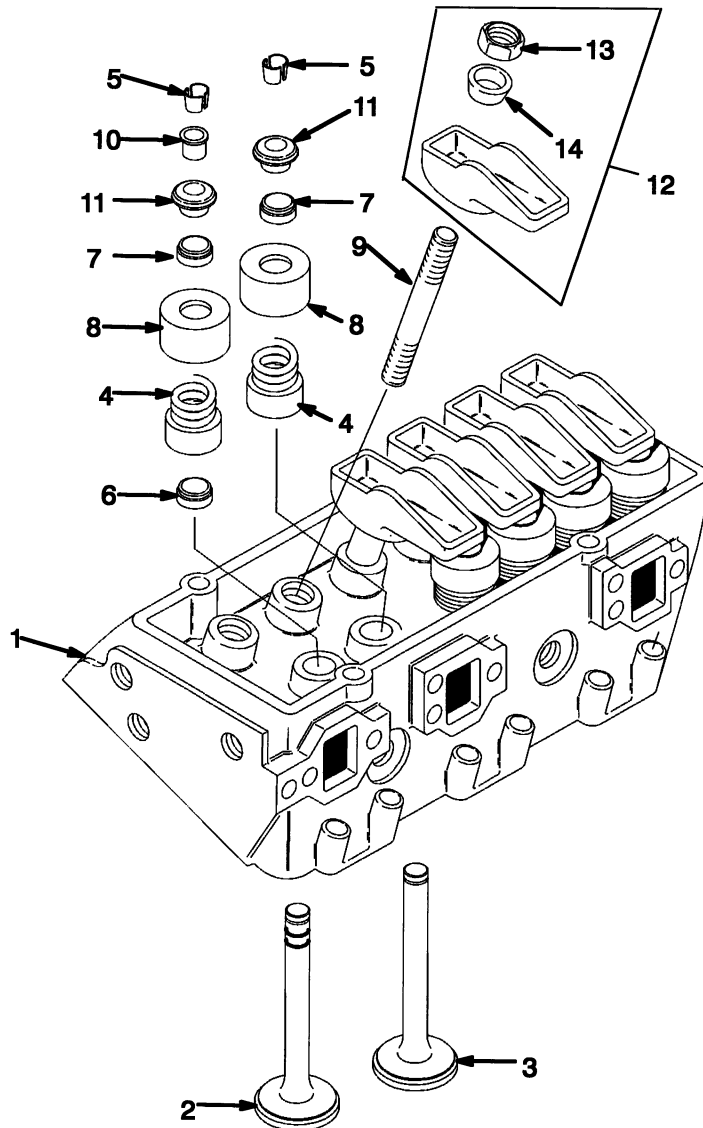
CYLINDER HEAD
GASOLINE AND LPG – 3KM 1993 SERIES ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
47	353199	Clamp	1
48	136687	Nut	2
49	15162	Lockwasher	1
50	197888	Spark Plug	6

NOTES

[illegible]

CYLINDER HEAD (FIGURE 2-22) GASOLINE AND LPG — 4LM 1994 SERIES ENGINE

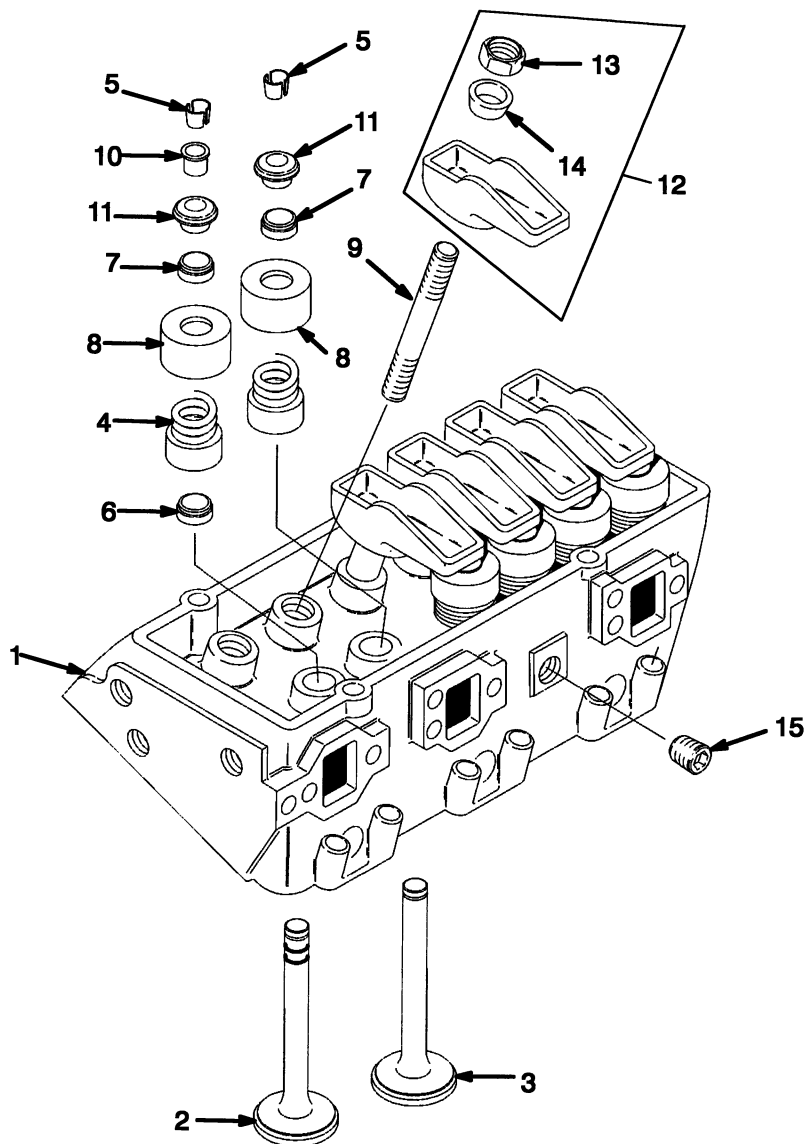


HP090136

CYLINDER HEAD
GASOLINE AND LPG – 4LM 1994 SERIES ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1369493	Engine Assy-Gas	1
1	1374258	Cylinder Head	2
2	1374286	Inlet Valve	6
3	1374105	Exhaust Valve (Standard)	6
3	1374287	Exhaust Valve (0.0155 in. O/S) (0.001 in.)	6
4	263748	Spring	12
5	263750	Valve Stop	24
6	375564	Seal	12
7	145173	Seal (Valve)	12
8	314539	Oil Shield	12
9	1358677	Stud	12
10	149867	Exhaust Valve	12
11	312948	Cap	12
12	1367478	Kit-Rocker Arm	1
13	1358043	Nut	1
14		Ball	1

CYLINDER HEAD (FIGURE 2-23) GASOLINE AND LPG — 5LM 1995 SERIES ENGINE

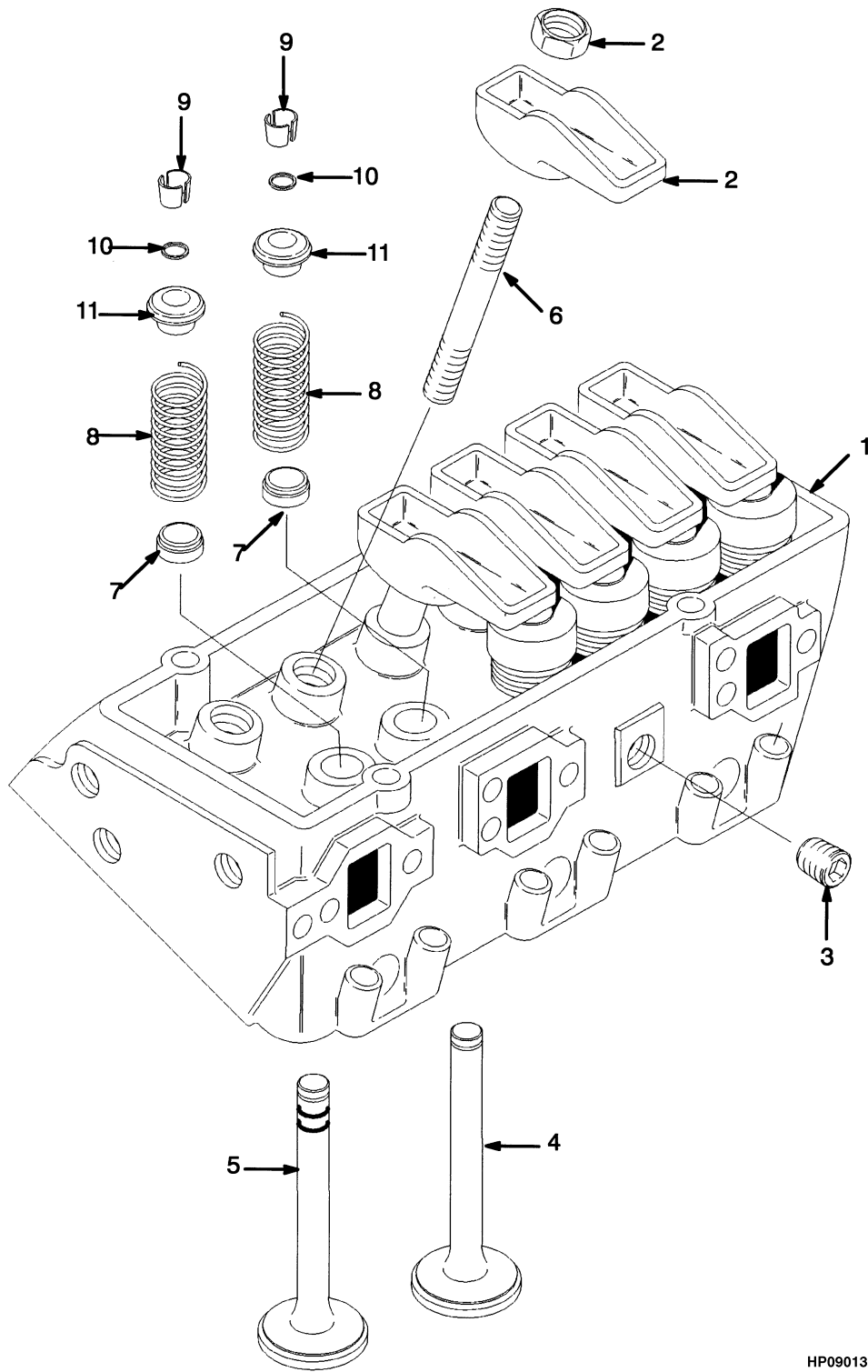


HP090137

CYLINDER HEAD
GASOLINE AND LPG – 5LM 1995 SERIES ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1377796	Engine Assy-Gas	1
1	1374258	Cylinder Head	2
2	375557	Inlet Valve (Standard)	6
3	1374105	Exhaust Valve (Standard)	6
4	263748	Spring	12
5	263750	Valve Stop	24
6	1389977	Seal	6
7	145173	Seal (Valve)	12
8	314539	Oil Shield	12
9	1358677	Stud	12
10	149867	Exhaust Valve	12
11	312948	Cap	12
12	1367478	Kit-Rocker Arm	1
13	1358043	Nut	12
14		Ball	12
15	388359	Plug	1
	1383905	Kit-Gasket	1

CYLINDER HEAD (FIGURE 2-24) GASOLINE AND LPG — 1996 THRU 1999 SERIES ENGINE



HP090138

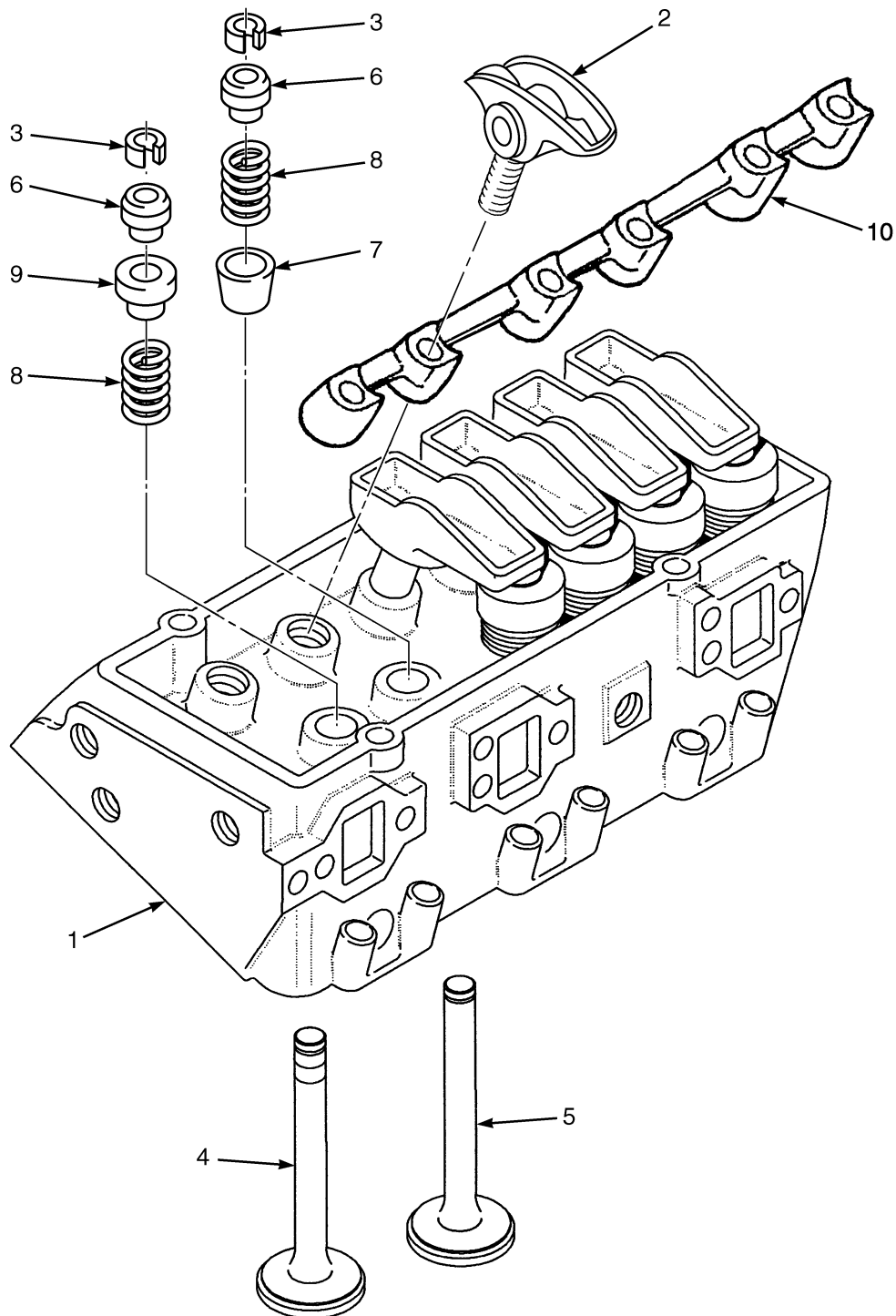
CYLINDER HEAD

GASOLINE AND LPG – 1996 THRU 1999 SERIES ENGINE

KEY:**A: 6LX 1996 Series Engine****B: 7LX 1997 Series Engine****C: 8LX 1998 Series Engine****D: 9LX 1999 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1393582	Engine Assy-Gas	..	1	..	..
	1380300	Engine Assy-Gas	1	..	..	..
	1453581	Engine Assy-Lpg	..	..	1	..
	1459646	Engine Assy-Lpg	..	..	..	1
1	1386196	Cylinder Head	2	..	..	..
1	1451323	Cylinder Head	..	2	2	2
2	1367478	Kit-Rocker Arm	12	12	12	12
2	1358043	Nut	1	1	1	1
3	388359	Plug	1	1	1	..
4	1386194	Exhaust Valve (Standard)	6	6	6	6
5	1386195	Inlet Valve (Standard)	6	6	6	6
6	1358677	Stud	12	12	12	12
7	1386197	Seal (Black-Intake)	6	6	6	12
8	1386198	Spring	12	12	12	12
9	1377110	Valve Stop	24	24	24	24
10	1460384	Seal (Orange-Exhaust)	..	..	..	12
11	1393127	Cap	..	..	..	12

CYLINDER HEAD (FIGURE 2-25) GASOLINE AND LPG — 2000 SERIES ENGINE



HP090254

CYLINDER HEAD

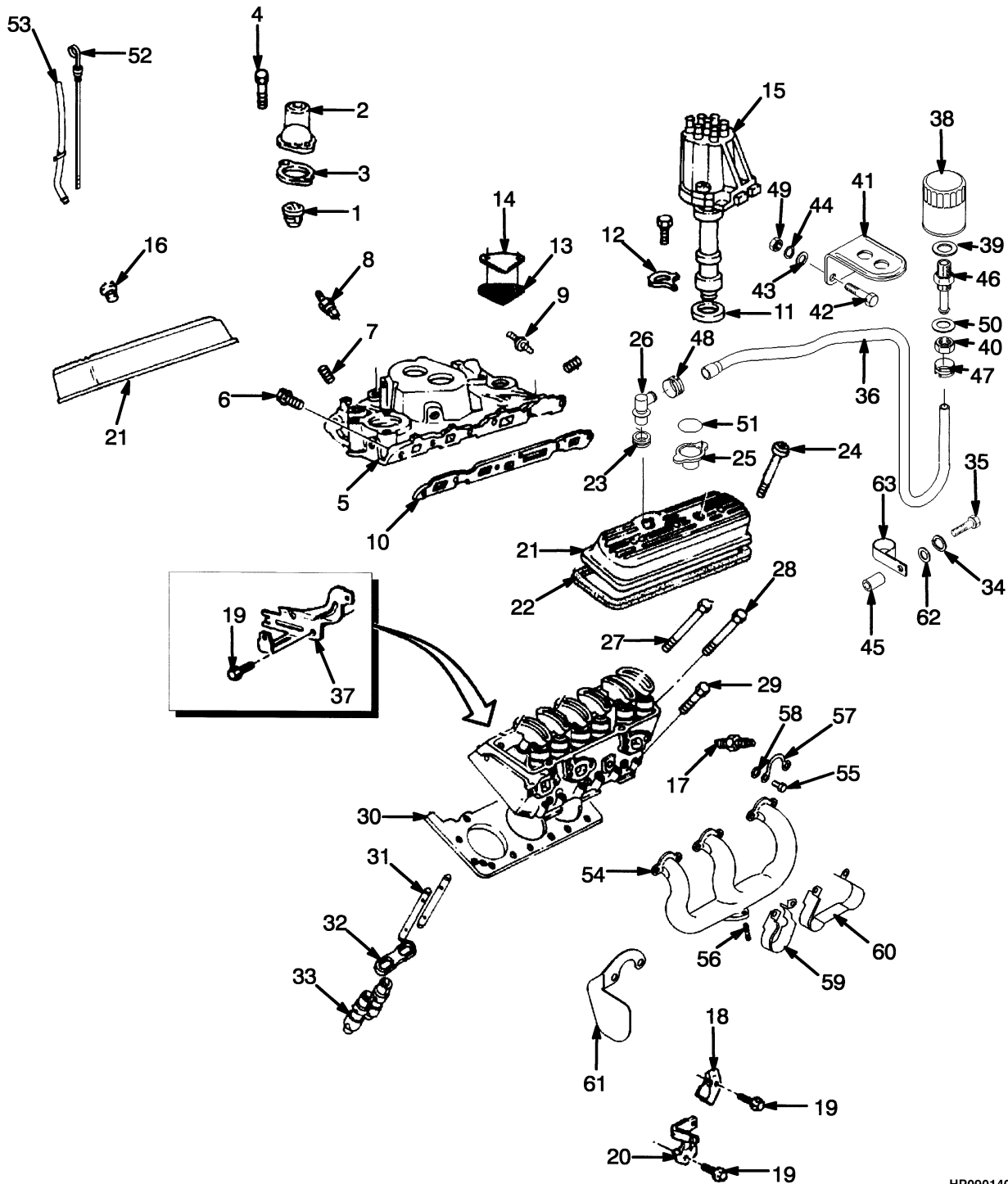
GASOLINE AND LPG – 2000 SERIES ENGINE

KEY:**A:** 0LX 2000 Series Engine**B:** 1LX 2001 Series Engine**C:** 2MY 2002 Series Engine**D:** 3MY 2003 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1467585	Engine Assy-Lpg	1	..	..	..
	1485262	Engine Assy-Lpg	..	1	..	..
	1506843	Engine Assy-Lpg	..	..	1	..
	a 1524200	Engine Assy-Lpg	..	..	..	1
	b 1585577	Engine Assy-Gas (4MY 2004 Series Engine)	..	..	..	1
1	1471557	Cylinder Head	2	2	2	2
2	1471555	Rocker Arm	12	12	12	12
2	1389051	Bolt	4	4	4	4
3	1377110	Valve Stop	24	24	24	24
4	1386194	Exhaust Valve	6	6	6	6
5	1386195	Inlet Valve	6	6	6	6
6	1393127	Cap	12	12	12	12
7	1386197	Seal (Black-Intake)	6	6	6	6
8	1386198	Spring	12	12	12	12
9	1460384	Seal (Orange-Exhaust)	6	6	6	6
10	1489643	Support (Rocker Arm)	2	2	2	2

FOOTNOTES:**a** → S/N F006V02324A**b** S/N F006V02325A →

VALVE COVER AND INLET MANIFOLD (FIGURE 2-26) GASOLINE AND LPG — 4LM 1994 SERIES ENGINE



HP090140

**VALVE COVER AND INLET MANIFOLD
GASOLINE AND LPG – 4LM 1994 SERIES ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
	1369493	Engine Assy-Gas	1
1	1374109	Thermostat	1
2	1371229	Water Outlet	1
3	1374110	Seal	1
4	375597	Bolt	10
5	1374111	Intake Manifold (Inlet)	1
6	388308	Bolt	1
7	1335241	Plug	1
8	1314381	Temperature Sender	1
9	375598	Stud	2
10	1376889	Kit-Gasket (Inlet Manifold)	1
11	1334423	Gasket (Ignition Timer)	1
12	4019054		
	1335497	Clamp	1
13	1374113	Gasket (EGR Valve)	1
14	1374112	Cover (EGR Valve)	1
15	1450869	Distributor (☞Figure 4-33).....	1
15	1374322	Distributor (☞Figure 4-33).....	1
16	1374288	Grommet	2
17	1375925	Spark Plug	6
18	1327907	Support	1
19	370169	Kit-Screw	3
20	1374324	Support	1
21	1374291	Cover (RH)	1
21	1374292	Cover (LH)	1
22	1374293	Gasket	2
23	1374288	Grommet	3
24	1374289	Bolt	6
25	1374290	Cap	1
26	321734	Pcv Valve	1
27	375567	Bolt (3.75 in.)	10
28	375568	Bolt (3.00 in.)	4
29	263847	Bolt (1.75 in.)	12
30	1386190	Cylinder Head Gasket	2
31	388356	Push Rod	12
32	1374115	Guide	6
33	1343902	Valve Lifter	12
34	320159	Washer	1
35	16828	Capscrew	1
36	379403	Hose	1
37	298132	Clamp	1
38	1316489	Breather	1
39	1300152	Washer	1
40	14761	Fitting -Lock Nut	1
41	186998	Bracket	1
42	292501	Capscrew	1
43	320156	Washer	1
44	292680	Washer	1
45	342962	Spacer	1
46	379400	Fitting	1

VALVE COVER AND INLET MANIFOLD GASOLINE AND LPG – 4LM 1994 SERIES ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
47	379405	Clamp	1
48	353199	Clamp	1
49	136687	Nut	1
50	15162	Lockwasher	1
51	1369485	Cover	1
52	a 1510649	Dipstick	1
52	b 1510649	Dipstick	1
53	369139	Dipstick Tube (Dipstick)	1
54	1317472	Manifold (Exhaust)	2
55	16379	Capscrew	12
56	352903	Stud	6
57	366686	Lock (Locktite)	6
58	1304392	Washer	12
59	1316494	Shield (Altered)	2
60	1316488	Shield (Spark Plug)	2
61	352952	Heat Shield	1
62	388049		
	292682	Lockwasher	1

FOOTNOTES:

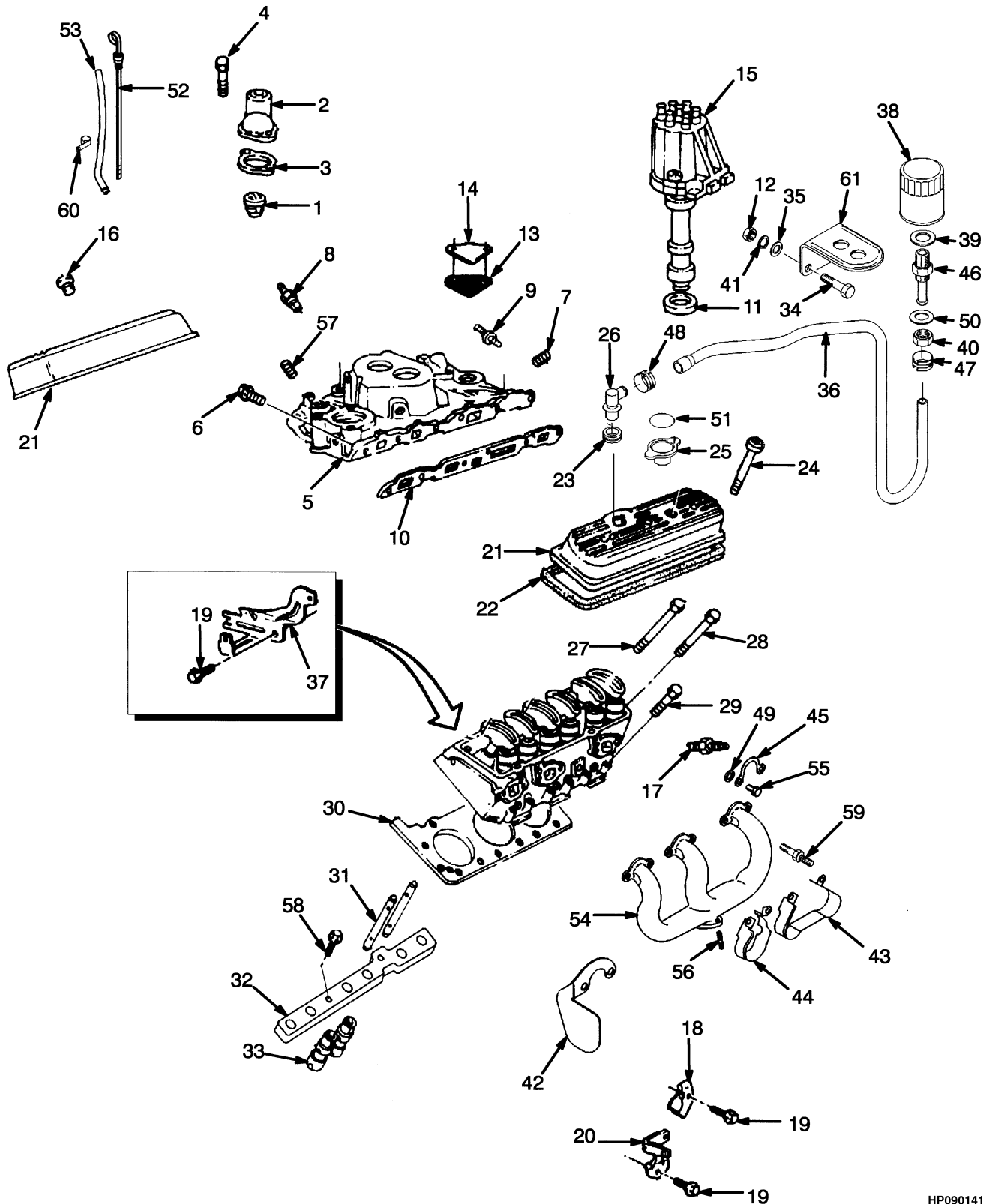
a → S/N F006A11558Z

b S/N F006A11559Z →

NOTES

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VALVE COVER AND INLET MANIFOLD (FIGURE 2-27) GASOLINE AND LPG — 5LM 1995 SERIES ENGINE



HP090141

**VALVE COVER AND INLET MANIFOLD
GASOLINE AND LPG – 5LM 1995 SERIES ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
	1377796	Engine Assy-Gas	1
1	1374109	Thermostat	1
2	1371229	Water Outlet	1
3	1374110	Seal	1
4	375597	Bolt	2
5	1374111	Intake Manifold	1
6	388308	Bolt	1
7	388359	Plug	1
8	1314381	Temperature Sender	1
9	375598	Stud	4
10	1389976	Gasket (Inlet Manifold)	2
11	1334423	Gasket (Ignition Timer)	1
12	239503	Nut	2
13	1374113	Gasket (EGR Valve)	1
14	1374112	Cover (EGR Valve)	1
15	1371235	Distributor (3KM 1993 and 5LM 1995 Series Engine) (☞ Figure 4-32).....	1
15	1342627	Distributor (2KM 1992 Series Engine) (☞ Figure 4-32).....	1
16	1374288	Grommet	6
17	1375925	Spark Plug	6
18	1327907	Support	1
19	370169	Kit-Screw	3
20	1374324	Support	1
21	1374291	Cover (LH)	1
21	1374292	Cover (RH)	1
22	1374293	Gasket (Valve Cover)	2
23	1374288	Grommet	3
24	1374289	Bolt	6
25	1374290	Cap	1
26	321734	Pcv Valve	1
27	1377792	Bolt (Long) (3.75 in.)	10
28	1377793	Bolt (Medium) (3.15 in.)	4
29	1377794	Bolt (Short) (1.75 in.)	12
30	1386190	Cylinder Head Gasket	2
31	388356	Push Rod	12
32	1374115	Guide	2
33	1343902	Valve Lifter	12
34	136749	Screw	2
35	320157	Washer	2
36	1337871	Hose	1
37	1374324	Support	1
38	1350036	Oil Filter	1
39	1300152	Washer	1
40	14761	Fitting -Lock Nut	1
41	292681	Lockwasher	2
42	352952	Heat Shield	1
43	1316488	Shield (Spark Plug)	2
44	1316494	Shield	2
45	366686	Lock (Exhaust Manifold Bolt)	6
46	379400	Fitting	1
47	379405	Clamp	1

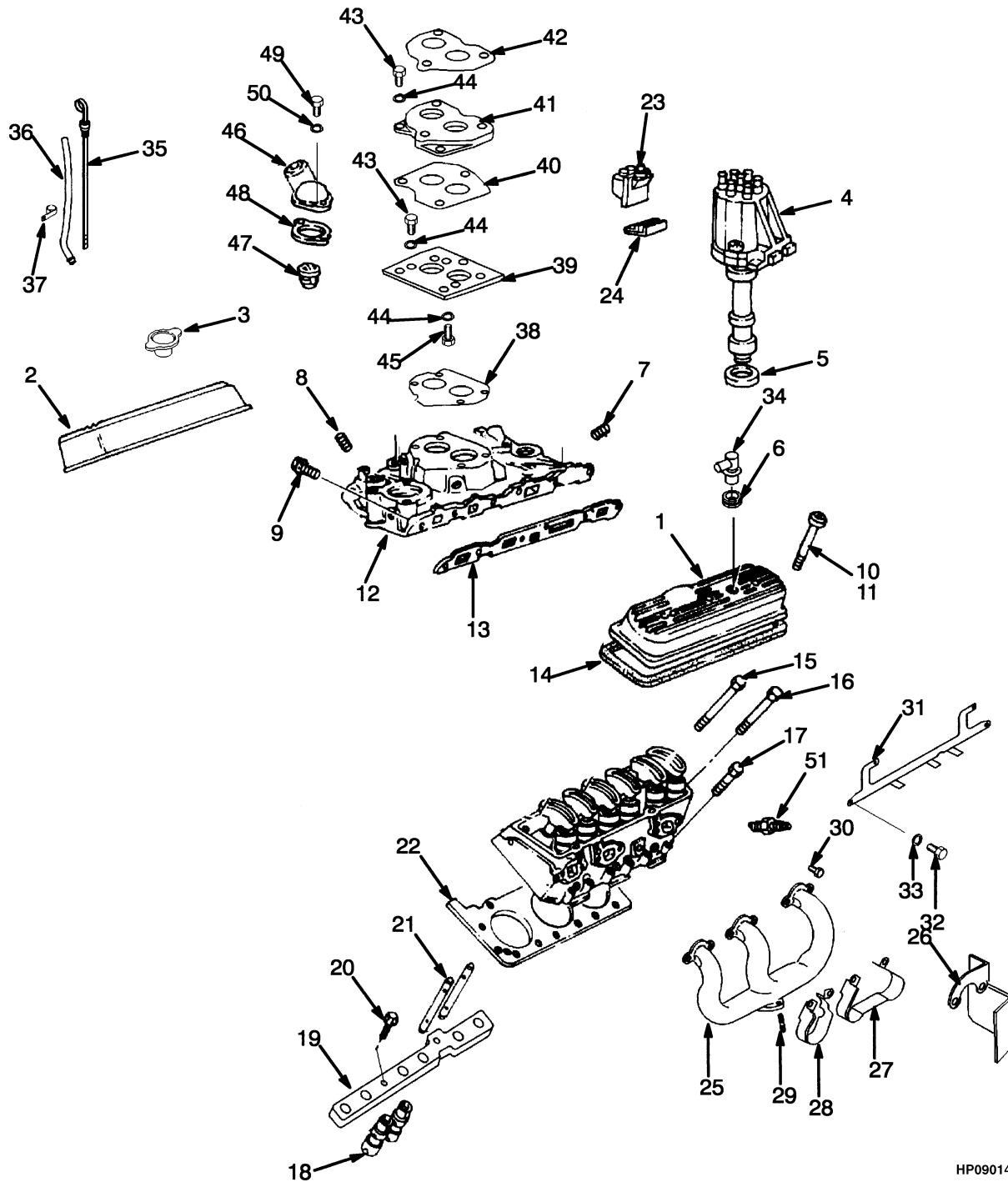
**VALVE COVER AND INLET MANIFOLD
GASOLINE AND LPG – 5LM 1995 SERIES ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
48	353199	Clamp	1
49	1304392	Washer	12
50	15162	Lockwasher	1
51	1369485	Cover	1
52	1510649	Dipstick	1
53	288394	Sealant	AR
53	369139	Dipstick Tube (Dipstick)	1
54	1317472	Manifold (Exhaust)	2
55	16379	Capscrew	11
56	352903	Stud	6
57	1335241	Plug	1
58	1371233	Bolt	4
59	1378932	Stud	1
60	133696	Clamp	1
61	186998	Bracket	1
	1383905	Kit-Gasket	1

NOTES

[illegible]

VALVE COVER AND INLET MANIFOLD (FIGURE 2-28) GASOLINE AND LPG — 1996 THRU 1999 SERIES ENGINE



HP090142

VALVE COVER AND INLET MANIFOLD **GASOLINE AND LPG – 1996 THRU 1999 SERIES ENGINE**

KEY:**A: 6LX 1996 Series Engine****B: 7LX 1997 Series Engine****C: 8LX 1998 Series Engine****D: 9LX 1999 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1393582	Engine Assy-Gas	..	1	..	..
	1380300	Engine Assy-Gas	1	..	..	..
	1453581	Engine Assy-Lpg	..	..	1	..
	1459646	Engine Assy-Lpg	..	..	..	1
1	1386185	Cover (LH)	1	1	1	1
2	1389102	Cover (RH)	1	1	1	1
3	1374290	Cap	1	1	1	1
4	1450869	Distributor (LX6 1996, LX7 1997, LX8 1998, LX9 1999, 2000 Series Engine) (☞ Figure 4-33).....	1	1	1	1
4	1374322	Distributor (LM4 1994 Series Engine) (☞ Figure 4-33).....	1	1	1	1
5	1334423	Gasket	1	1	1	1
6	1374288	Grommet	3	3	3	3
7	1331341	Plug	3	3	3	3
8	1335241	Plug (Water Outlet)	1	1	1	..
9	4019127					
	1389093	Bolt	8	8	8	8
10	1383904	Grommet	6	6	6	6
11	1374289	Bolt	6	6	6	6
12	1386186	Intake Manifold (Intake)	1	1	1	1
13	1386187	Kit-Gasket (The kit includes two intake manifold gaskets)	2	2	2	2
14	1374293	Gasket	2	2	2	2
15	1377792	Bolt (Long)	10	10	10	10
16	1377793	Bolt (Medium)	4	4	4	4
17	1377794	Bolt (Short)	10	10	10	10
18	1386188	Valve Lifter	12	12	12	12
19	1389050	Guide	2	2	2	2
20	1389051	Bolt	4	4	4	4
21	1386189	Push Rod	12	12	12	12
22	1386190	Cylinder Head Gasket (Cylinder Head)	1	1	1	2
23	1371237	Bolt	2	2	2	2
23	1386191	Ignition Coil	1	1	1	1
24	1389103	Bracket (Upper)	1	1	1	1
24	1389105	Bracket (Lower)	1	1	1	1
25	1380802	Exhaust Manifold	2	2	2	2
26	352952	Heat Shield	1	1	1	1
27	1316488	Shield (Spark Plug)	2	2	2	2
28	1316494	Shield (Spark Plug)	2	2	2	2
29	1384349	Stud	6	6	6	6
30	1383257	Bolt	12	12	12	12
31	1383241	Support	2	2	2	1
32	15154	Lockwasher	4	4	4	4
33	133469	Capscrew	4	4	4	4

VALVE COVER AND INLET MANIFOLD GASOLINE AND LPG – 1996 THRU 1999 SERIES ENGINE

KEY:

A: 6LX 1996 Series Engine

B: 7LX 1997 Series Engine

C: 8LX 1998 Series Engine

D: 9LX 1999 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
34	379407	Fitting	1	1	1	1
35	a 1510649	Dipstick	1	1	1	1
35	b 1510649	Dipstick	1	1	1	1
36	369139	Dipstick Tube (Dipstick)	1	1	1	1
37	133696	Clamp	1	1	1	1
38	1383237	Gasket	1	1	1	1
39	1383211	Plate (Lower)	1	1	1	1
40	1383213	Gasket	1	1	1	1
41	1383239	Spacer	1	1	1	1
42	1333806	Gasket	1	1	1	1
43	16836	Capscrew	7	7	7	7
44	15155	Lockwasher	10	10	10	10
45	16394	Capscrew	1	1	1	1
46	1371229	Water Outlet	1	1	1	1
47	1450643	Thermostat	..	1	1	1
47	231522	Thermostat	1	..	..	..
48	1330725	Gasket	1	1	1	1
49	16598	Capscrew	2	2	2	2
50	15156	Lockwasher	2	2	2	2
51	1641492	Spark Plug	6	6	6	6
51	1452376	Spark Plug (Optional)	6	6	6	6

FOOTNOTES:

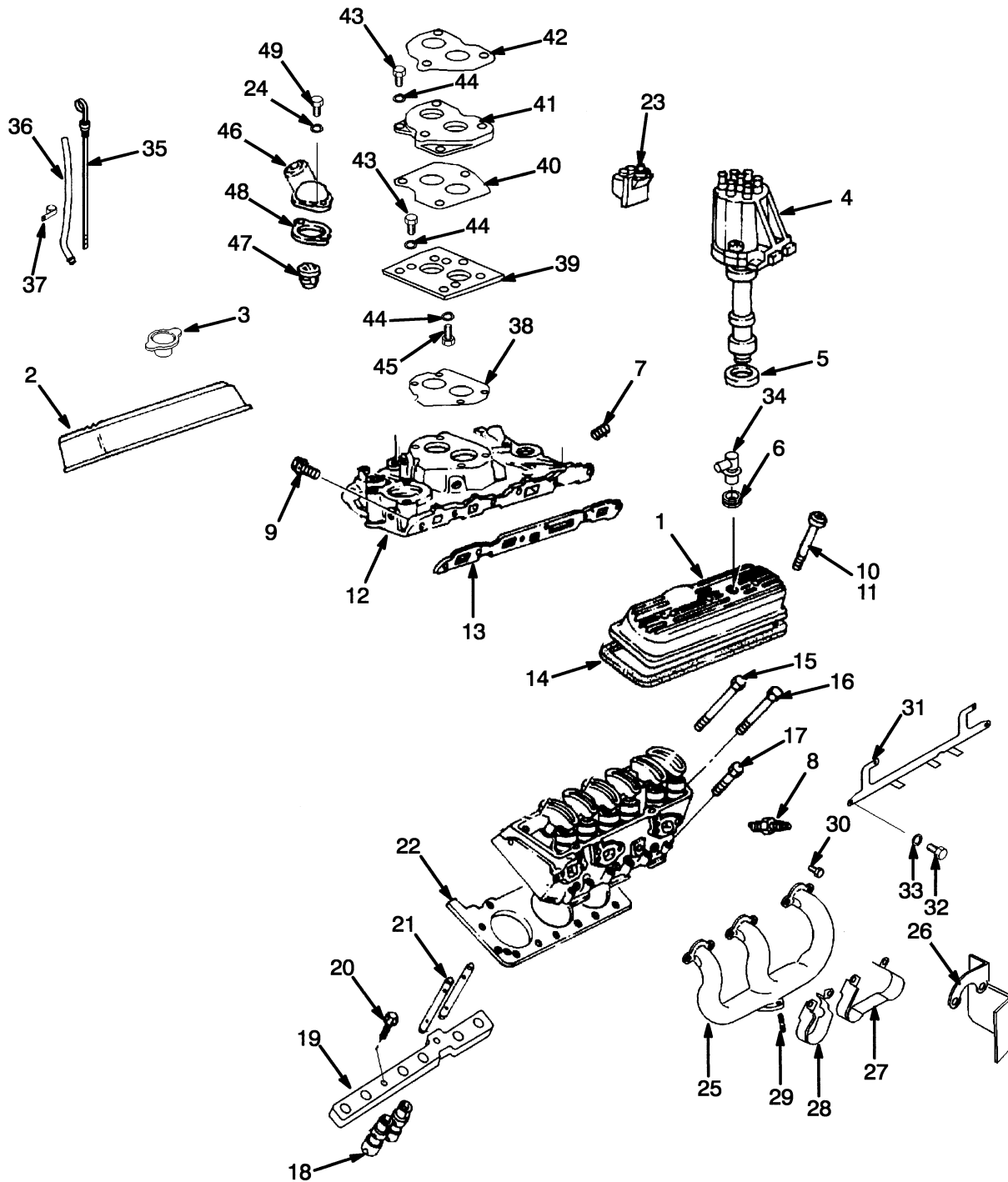
a → S/N F006A11558Z

b S/N F006A11559Z →

NOTES

[illegible]

VALVE COVER AND INLET MANIFOLD (FIGURE 2-29) GASOLINE AND LPG — 2000 SERIES ENGINE



HP091018

**VALVE COVER AND INLET MANIFOLD
GASOLINE AND LPG – 2000 SERIES ENGINE****KEY:****A: 0XL 2000 Series Engine****B: 1LX 2001 Series Engine****C: 2MY 2002 Series Engine****D: 3MY 2003 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1467585	Engine Assy-Lpg	1	..	..	..
	1485262	Engine Assy-Lpg	..	1	..	..
	1506843	Engine Assy-Lpg	..	..	1	..
	b 1524200	Engine Assy-Lpg	..	..	..	1
	c 1585577	Engine Assy-Gas (4MY 2004 Series Engine)	..	..	..	1
1	1386185	Cover (LH)	1	1	1	1
2	1389102	Cover (RH)	1	1	1	1
3	1374290	Cap (Oil)	1	1	1	1
4	1450869	Distributor (☞Figure 4-33).....	1	1	1	1
5	1334423	Gasket	1	1	1	1
6	1374288	Grommet	3	3	3	3
7	1331341	Plug	1	1	1	1
8	1641492	Spark Plug	6	6	6	6
8	1452376	Spark Plug (Optional)	6	6	6	6
9	4019127					
	1389093	Bolt	8	8	8	8
10	1383904	Grommet	6	6	6	6
11	1374289	Bolt	6	6	6	6
12	1386186	Intake Manifold (Intake) (Inlet)	1	1	1	1
13	1386187	Kit-Gasket (The kit includes two intake manifold gaskets)	1	1	1	1
14	1374293	Gasket	2	2	2	2
15	a 1377792	Bolt (Long)	10	10	10	10
16	a 1377793	Bolt (Medium)	4	4	4	4
17	a 1377794	Bolt (Short)	10	10	10	10
18	1471559	Valve Lifter	12	12	12	12
19	1389050	Guide	2	2	2	2
20	1389051	Bolt	4	4	4	2
21	1386189	Push Rod	12	12	12	12
22	1386190	Cylinder Head Gasket	2	2	2	..
22	1460333	Kit-Gasket (Cylinder Head)	..	..	..	1
23	1386191	Ignition Coil	1	1	1	1
24	15156	Lockwasher	2	2	5	5
25	1380802	Exhaust Manifold	1	1	1	..
25	1502741	Exhaust Manifold	..	..	..	1
26	352952	Heat Shield	1	1	1	..
26	1529010	Heat Shield	..	..	..	1
27	1316488	Shield	2	2	2	2
28	1316494	Shield	2	2	2	2
29	1384349	Stud	6	6	6	..
30	1383257	Bolt	12	12	12	12
31	1383241	Support	1	1	1	1
32	15154	Lockwasher	4	4	4	4

VALVE COVER AND INLET MANIFOLD GASOLINE AND LPG – 2000 SERIES ENGINE

KEY:**A:** 0XL 2000 Series Engine**B:** 1LX 2001 Series Engine**C:** 2MY 2002 Series Engine**D:** 3MY 2003 Series Engine

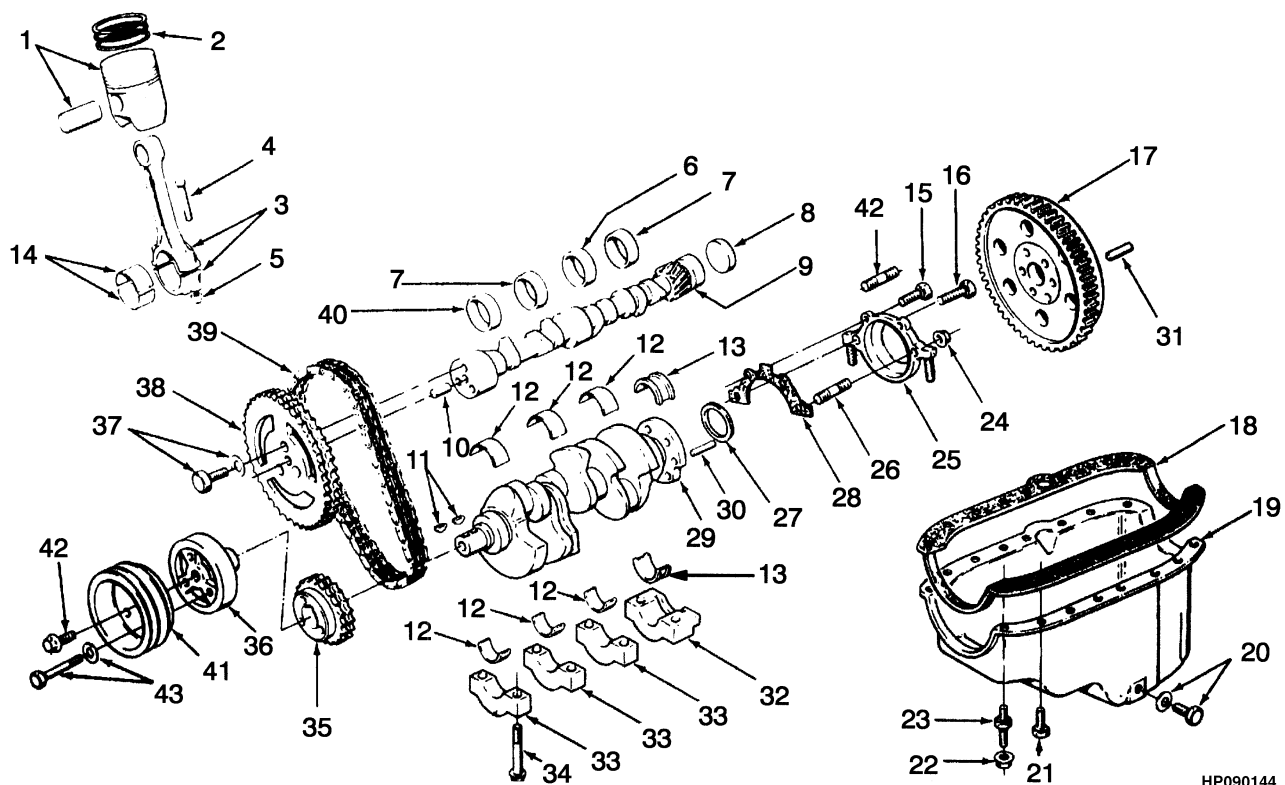
ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
33	133469	Capscrew	4	4	4	4
34	379407	Fitting	1	1	1	1
35	1510649	Dipstick	..	..	..	1
36	369139	Dipstick Tube	1	1	1	..
36	1514915	Dipstick Tube	..	..	..	1
37	133696	Clamp	1	1	1	1
38	1383237	Gasket	1	1	1	1
39	1383211	Plate	1	1	1	1
40	1383213	Gasket	1	1	1	1
41	1383239	Spacer	1	1	1	1
42	1333806	Gasket	1	1	1	1
43	16836	Capscrew	7	7	7	7
44	15155	Lockwasher	10	10	10	10
45	16394	Capscrew	1	1	1	1
46	1371229	Water Outlet	1	1	1	1
47	1450643	Thermostat	1	1	1	1
48	1330725	Gasket	1	1	1	1
49	16598	Capscrew	2	2	2	2

FOOTNOTES:**a** Quantity is listed for both heads**c** S/N F006V02325A →**b** → S/N F006V02324A

NOTES

[illegible]

CRANKSHAFT AND CAMSHAFT (FIGURE 2-30) GASOLINE AND LPG — 1986 THRU 1989 SERIES ENGINE



HP090144

CRANKSHAFT AND CAMSHAFT

GASOLINE AND LPG – 1986 THRU 1989 SERIES ENGINE

KEY:**A: 6KM 1986 Series Engine****B: 7KM 1987 Series Engine****C: 8KM 1988 Series Engine****D: 9KM 1989 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1302960	Engine Assy-Gas	..	..	1	..
	1312468	Engine Assy-Gas	..	..	..	1
	373100	Engine Assy-Gas	1	..	..	..
	383134	Engine Assy-Gas	..	1	..	..
1	1374309	Piston and Rod (Standard)	..	6	6	6
1	306772	Piston (Standard)	6	..	..	..
1	388371	Piston (0.005 in.)	..	..	6	6
1	388372	Piston (0.030 in.)	6	6	6	6
2	306774	Kit-Piston Ring (Standard)	6	6	6	6
2	375550	Kit-Piston Ring (0.030 in. O/S)	6	6	6	6
3	375577	Rod	6	6	6	6
4	1360182	Bolt	2	2	2	2
5	221708	Nut	2	2	2	2
6	301957	Bushing	1	1	1	1
7	301956	Bushing	2	2	2	2
8	263788	Plug (Rear Bearing)	1	1	1	1
9	375613	Camshaft	1	..	..	..
9	388354	Camshaft	..	1	1	1
10	1450941	Pin	1	1	1	1
11	1335057	Key	2	2	2	2
12	1324015	Crankshaft Bearing (0.010 in.)	1	1	1	1
12	1324016	Bearing (0.020 in.)	1	1	1	1
12	1324017	Crankshaft Bearing (0.030 in.)	1	1	1	1
12	1324018	Bearing (0.040 in.)	1	1	1	1
12	375551	Kit-Crankshaft Bearing (Standard)	1	1	1	1
13	263755	Crankshaft Bearing (0.001 in.)	..	..	1	1
13	263758	Crankshaft Bearing (0.010 in.)	..	..	1	1
13	263759	Crankshaft Bearing (0.020 in.)	..	..	1	1
14	1324011	Piston Rod Bearing (0.010 in.)	6	6	6	6
14	1324012	Bearing (0.020 in.)	6	6	6	6
14	1324013	Bearing (0.030 in.)	6	6	6	6
14	1324014	Bearing (0.040 in.)	..	..	..	6
14	375579	Bearing (Standard)	6	6	6	6
15	375575	Bolt	2	2	2	2
16	375602	Bolt	1	1	1	1
	1335490	Bolt	1	1	1	1
17	c 1454600	Flywheel (☞Figure 2-3).....	1	1	1	1
17	b 344357	Flywheel (☞Figure 2-3).....	1	1	1	1
17	350152	Flywheel (☞Figure 2-3).....	1	1	1	1
18	375582	Gasket	1	1	1	1
19	1306676	Oil Pan	1	1	1	1
20	164029	Screw	1	1	1	1
20	388305	Gasket	1	1	1	..

CRANKSHAFT AND CAMSHAFT GASOLINE AND LPG – 1986 THRU 1989 SERIES ENGINE

KEY:

A: 6KM 1986 Series Engine

B: 7KM 1987 Series Engine

C: 8KM 1988 Series Engine

D: 9KM 1989 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
21	16378	Capscrew	12	12	12	12
22	375584	Nut	4	4	4	4
23	375574	Stud	2	2	2	2
24	370156	Nut	1	..	..	..
24	388313	Nut	..	1	1	1
25	375572	Retainer	1	1	1	1
26	375574	Stud	1	2	2	2
27	1335228	Seal	1	1	1	1
28	1500884	Gasket	1	1	1	1
29	375570	Crankshaft	1	1	1	1
30	375571	Pin	1	1	1	1
31	375601	Pin (CR/SHF RR Seal Retainer)	1	1	1	1
32		Bearing Cap	1	1	1	1
33	263789	Cap	3	3	3	3
34	263842	Bolt	8	8	8	8
35	375615	Sprocket	1	..	..	..
35	388310	Sprocket	..	1	1	1
36	1339967	Damper	..	1	1	1
36	375576	Damper	1	..	..	..
37	221453	Capscrew	..	..	3	3
37	221455	Capscrew	3	3	..	..
37	242164	Washer	3	3	3	3
38	1339974	Sprocket	..	..	1	1
38	375614	Sprocket	1	..	..	..
38	388309	Sprocket	..	1	..	..
39	375616	Chain	1	..	..	..
39	388355	Chain	..	1	1	1
40	301955	Bushing	1	1	1	1
41		Pulley (Figure 2-7).....	1	1	1	1
42	221549	Capscrew	1	1	1	1
43	15156	Lockwasher	3	3	3	3
43	16634	Capscrew	3	3	3	3
	306770	Cylinder Block	1	1	1	1
	a 1303792	Cylinder Block	1	1	1	1

FOOTNOTES:

a Engine has Standard Size Rings and Bearings

c S/N F006D04443 →

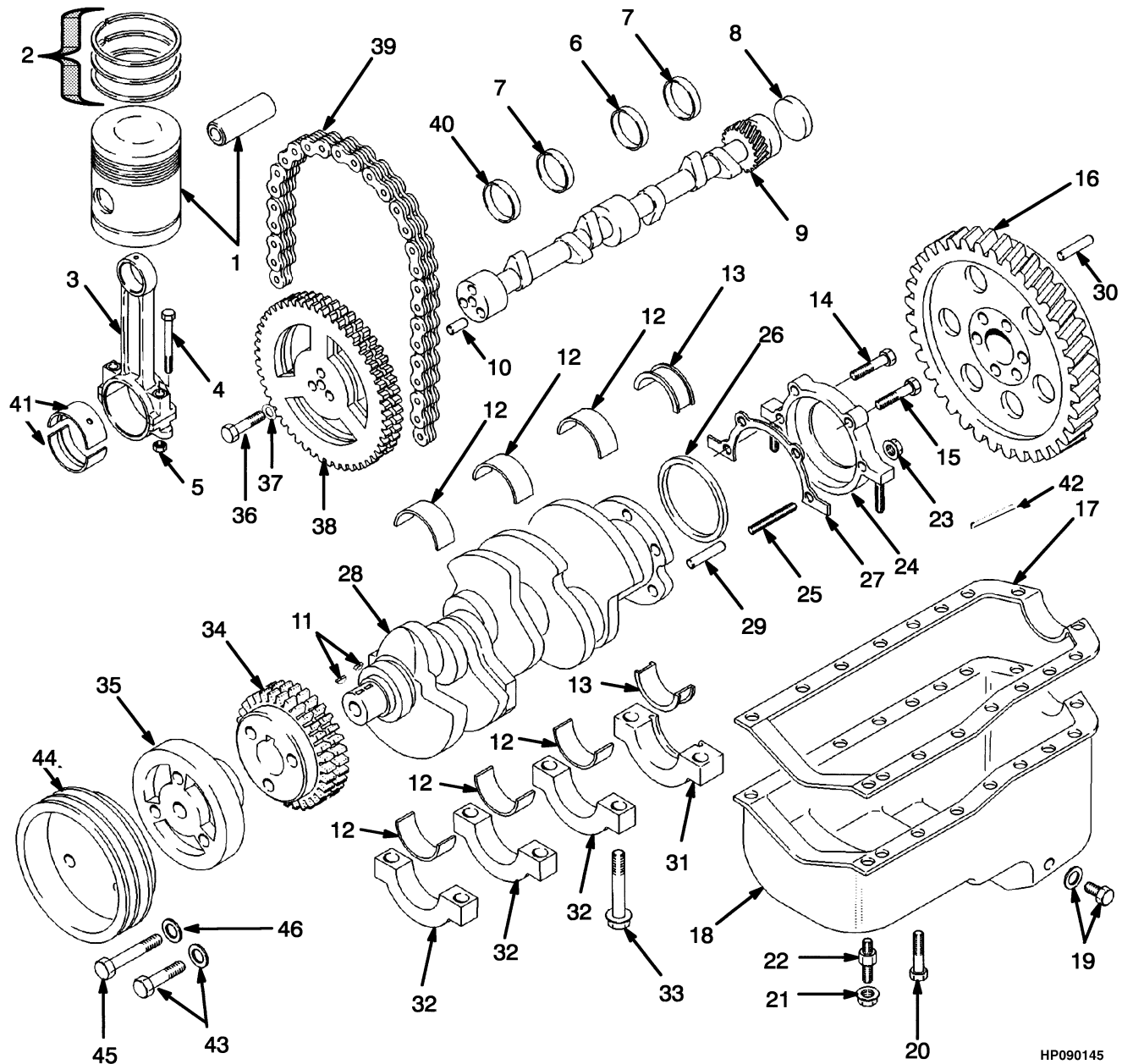
b → S/N F006D04442

NOTES

[illegible]

CRANKSHAFT AND CAMSHAFT (FIGURE 2-31)

GASOLINE AND LPG — 1990 THRU 1991 SERIES ENGINE (→ S/N F006A07082)



HP090145

CRANKSHAFT AND CAMSHAFT

GASOLINE AND LPG – 1990 THRU 1991 SERIES ENGINE (→ S/N F006A07082)

KEY:**A: 0KM 1990 Series Engine****B: 1KM 1991 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1317496	Engine Assy-Gas	1	..
	1334844	Engine Assy-Gas	..	1
1	1374309	Piston and Rod (Standard)	6	6
1	388371	Piston (0.005 in.)	6	6
1	388372	Piston (0.030 in.)	6	6
2	306774	Kit-Piston Ring (Standard)	6	6
2	375550	Kit-Piston Ring (0.030 in. O/S)	6	6
3	375577	Rod	6	6
4	1360182	Bolt	2	2
5	221708	Nut	2	2
6	301957	Bushing	1	1
7	301956	Bushing	2	2
8	263788	Plug (Rear)	1	1
9	388354	Camshaft	1	1
10	1450941	Pin	1	1
11	7882	Woodruff Key	2	2
12	1324015	Crankshaft Bearing (0.010 in.)	1	1
12	1324016	Bearing (0.020 in.)	1	1
12	1324017	Crankshaft Bearing (0.030 in.)	1	1
12	1324018	Bearing (0.040 in.)	1	1
12	375551	Kit-Crankshaft Bearing (Standard)	1	1
13	1306683	Bearing (0.001 in.)	1	1
13	1307958	Kit-Crankshaft Bearing (.030 in.) (Standard)	1	1
13	263758	Crankshaft Bearing (0.010 in.)	1	1
14	375575	Bolt	2	2
15	375602			
	1335490	Bolt	1	1
16	c 1454600	Flywheel (☞Figure 2-3).....	1	1
16	b 344357	Flywheel (☞Figure 2-3).....	1	1
16	350152	Flywheel (☞Figure 2-3).....	1	1
17	375582	Gasket	1	1
18	1306676	Oil Pan	1	1
19	308624	Screw	1	1
19	1347330	Gasket	1	1
20	16378	Capscrew	12	12
21	375584	Nut	4	4
22	375574	Stud	2	2
23	388313	Nut	1	1
24	375572	Retainer	1	1
25	375574	Stud	2	2
26	1335228	Seal	1	1
27	1500884	Gasket	1	1
28	375570	Crankshaft	1	1
29	375571	Pin	1	1
30	375601	Pin (CR/SHF RR Seal Retainer)	1	1

CRANKSHAFT AND CAMSHAFT

GASOLINE AND LPG – 1990 THRU 1991 SERIES ENGINE (→ S/N F006A07082)

KEY:
A: 0KM 1990 Series Engine

B: 1KM 1991 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
31		Bearing Cap	1	1
32	263789	Cap	3	3
33	263842	Bolt (Bearing Cap)	8	8
34	388310	Sprocket	1	1
35	1339967	Damper	1	1
36	221453	Capscrew	3	3
37	263851	Washer	3	3
38	1339974	Sprocket	1	1
39	388355	Chain	1	1
40	301955	Bushing	1	1
41	1324011	Piston Rod Bearing (0.010 in.)	6	6
41	1324012	Bearing (0.020 in.)	6	6
41	1324013	Bearing (0.030 in.)	6	6
41	1324014	Bearing (0.040 in.)	6	6
41	375579	Bearing (Standard)	6	6
42	388364	Stud	1	1
43	15156	Lockwasher	3	3
43	16634	Capscrew	3	3
44	350070	Pulley (Figure 2-7).....	1	1
45	221544	Capscrew	1	1
46	4019024			
	1305165	Washer	1	1
	a 1303792	Cylinder Block	1	1

FOOTNOTES:
a Engine has Standard Size Rings and Bearings

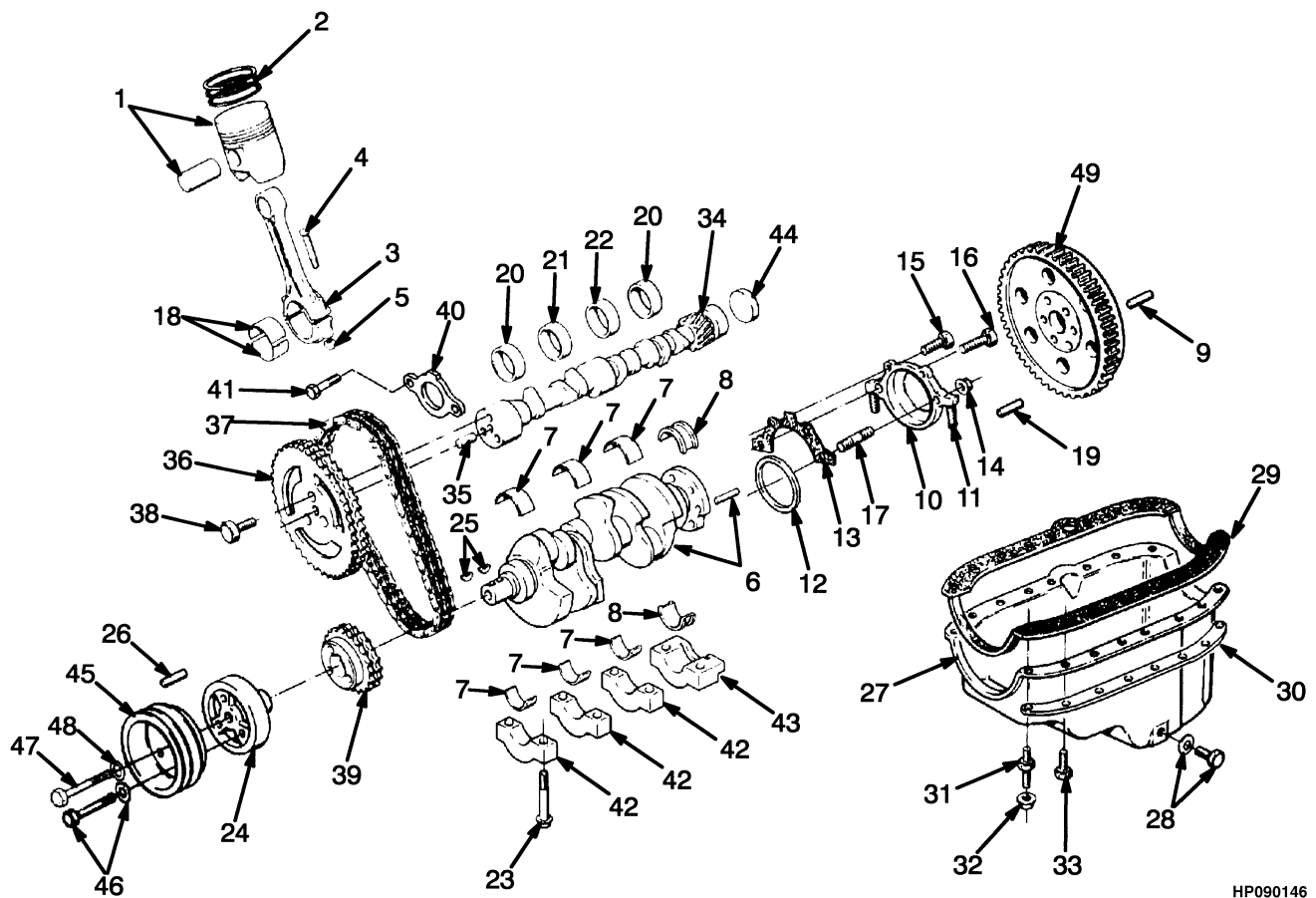
c S/N F006D04443 →

b → S/N F006D04442

NOTES

[illegible]

CRANKSHAFT AND CAMSHAFT (FIGURE 2-32) GASOLINE AND LPG — 2KM 1992 SERIES ENGINE (S/N F006A07083 →)



HP090146

CRANKSHAFT AND CAMSHAFT

GASOLINE AND LPG – 2KM 1992 SERIES ENGINE (S/N F006A07083 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1343167	Engine Assy	1
	1331603	Engine Assy-Gas	1
1	1374309	Piston and Rod (Standard)	6
1	1339970	Piston (0.030 in.)	6
1	1339969	Piston (0.005 in.)	6
2	306774	Kit-Piston Ring (Standard)	6
2	375550	Kit-Piston Ring (0.030 in. O/S)	6
3	375577	Rod	6
4	1360182	Bolt (Connecting Rod)	2
5	221708	Nut (Connecting Rod)	2
6	375570	Crankshaft	1
6	375571	Pin	1
7	1324018	Bearing (0.040 in.)	1
7	1324015	Crankshaft Bearing (0.010 in.)	1
7	1324016	Bearing (0.020 in.)	1
7	1324017	Crankshaft Bearing (0.030 in.)	1
7	375551	Kit-Crankshaft Bearing (Standard)	1
8	1307958	Kit-Crankshaft Bearing (.030 in.) (Standard)	1
8	263765	Crankshaft Bearing (0.020 in.)	1
8	1309839	Bearing Set (0.010 in. O/S) (0.010 in.)	1
9	375601	Pin (CR/SKF RR Seal Retainer)	1
10	1335227	Retainer	1
11	375574	Stud	2
12	1335228	Seal	1
13	1500884	Gasket	1
14	1335226	Nut	1
15	375575	Bolt	2
16	375602		
	1335490	Bolt	1
17	388364	Stud	1
18	1324013	Bearing (0.030 in.)	6
18	1324012	Bearing (0.020 in.)	6
18	1324011	Piston Rod Bearing (0.010 in.)	6
18	375579	Bearing (Standard)	6
18	1324014	Bearing (0.040 in.)	6
19	388364	Stud	1
20	301955	Bushing	2
21	301956	Bushing	1
22	301957	Bushing	1
23	263842	Bolt	8
24	1339967	Damper	1
25	1335057	Key	2
26	1338222	Pin	1
27	1306676	Oil Pan	1
28	1347330	Gasket	1
28	308624	Screw	1
29	375582	Gasket	1
30	1339971	Brace (LH)	1
30	1339972	Brace (RH)	1
31	375574	Stud	2

CRANKSHAFT AND CAMSHAFT

GASOLINE AND LPG – 2KM 1992 SERIES ENGINE (S/N F006A07083 →)

ITEM	PART NO.	DESCRIPTION	QTY
32	375584	Nut	4
33	16378	Capscrew	14
34	1342625	Camshaft	1
35	1450941	Pin	1
36	1339974	Sprocket	1
37	375616	Chain	1
38	221453	Capscrew	3
39	375615	Sprocket (Crankshaft)	1
40	1335064	Retainer (Camshaft)	1
41	1339963	Bolt	2
42		Bearing Cap	3
43		Bearing Cap	1
44	263788	Plug	1
45	350070	Pulley	1
46	15156	Lockwasher	3
46	16634	Capscrew	3
47	221544	Capscrew	1
48	4019024		
	1305165	Washer	1
49	b 1454600	Flywheel (☞ Figure 2-3).....	1
49	a 344357	Flywheel (☞ Figure 2-3).....	1
49	350152	Flywheel (☞ Figure 2-3).....	1

FOOTNOTES:

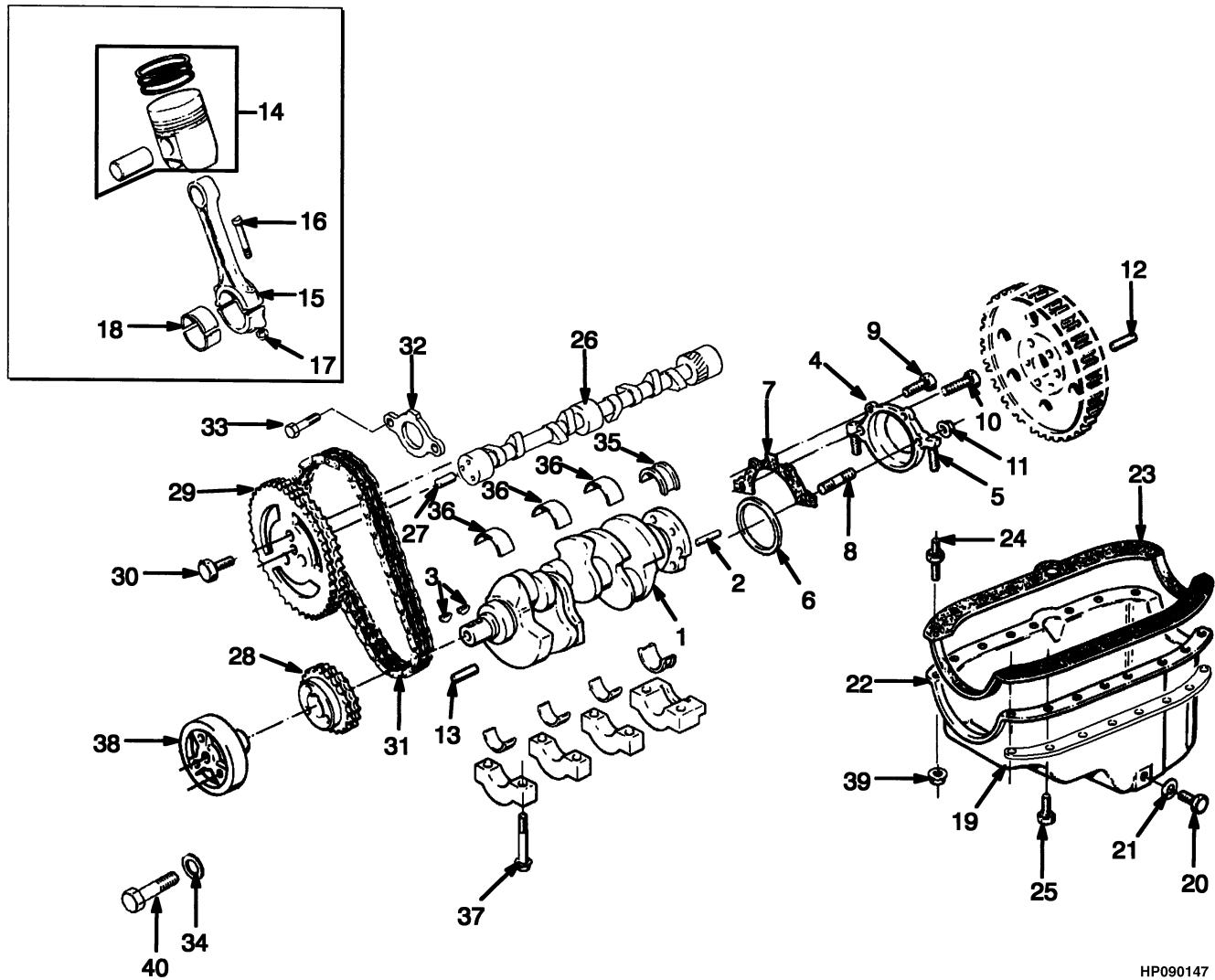
a → S/N F006D04442

b S/N F006D04443 →

NOTES

[illegible]

CRANKSHAFT AND CAMSHAFT (FIGURE 2-33) GASOLINE AND LPG — 3KM 1993 SERIES ENGINE



HP090147

**CRANKSHAFT AND CAMSHAFT
GASOLINE AND LPG – 3KM 1993 SERIES ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
	1356929	Engine Assy-Gas	1
1	375570	Crankshaft	1
2	375571	Pin	1
3	1335057	Key	2
4	1335227	Retainer	1
5	375574	Stud	2
6	1335228	Seal	1
6	1335228	Seal (Optional)	1
7	1500884	Gasket	1
8	388364	Stud	1
9	375575	Bolt	2
10	375602		
	1335490	Bolt	1
11	1335226	Nut	2
12	375601	Pin (CR/SKF RR Seal Retainer)	1
13	1338222	Pin	1
14	1362120	Kit-Piston (Hi-Limit)	6
14	1374123	Piston (Hi-Limit) (0.030 O/S)	1
14	1362121	Kit-Piston (Standard)	6
14	1362122	Kit-Piston Ring (Standard)	1
14	1374309	Piston and Rod (Standard)	1
14	1339970	Piston (0.030 O/S)	6
14	1362123	Kit-Piston Ring (0.030 O/S)	1
14	1380307	Kit-Piston (0.030 in.)	1
14	1374311	Piston Ring (0.030 in.)	1
15	1360179	Piston Rod	1
16	1360182	Bolt	2
17	221708	Nut	2
18	1324011	Piston Rod Bearing (0.010 in.)	1
18	1324012	Bearing (0.020 in.)	1
18	1324013	Bearing (0.030 in.)	1
18	1324014	Bearing (0.040 in.)	1
18	375579	Bearing (Standard)	1
19	1306676	Oil Pan	1
20	308624	Screw	1
21	388305	Gasket	1
22	1339971	Brace (LH) (Reinforcement)	1
22	1339972	Brace (RH) (Reinforcement)	1
23	375582	Gasket	1
24	375574	Stud	2
25	16378	Capscrew	16
26	1374114	Camshaft	1
27	1450941	Pin	1
28	375615	Sprocket	1
29	1339974	Sprocket	1
30	221453	Capscrew	3
31	375616	Chain (Timing)	1
32	1335064	Retainer	1
33	1339963	Bolt	2
34	4019024	Washer	1

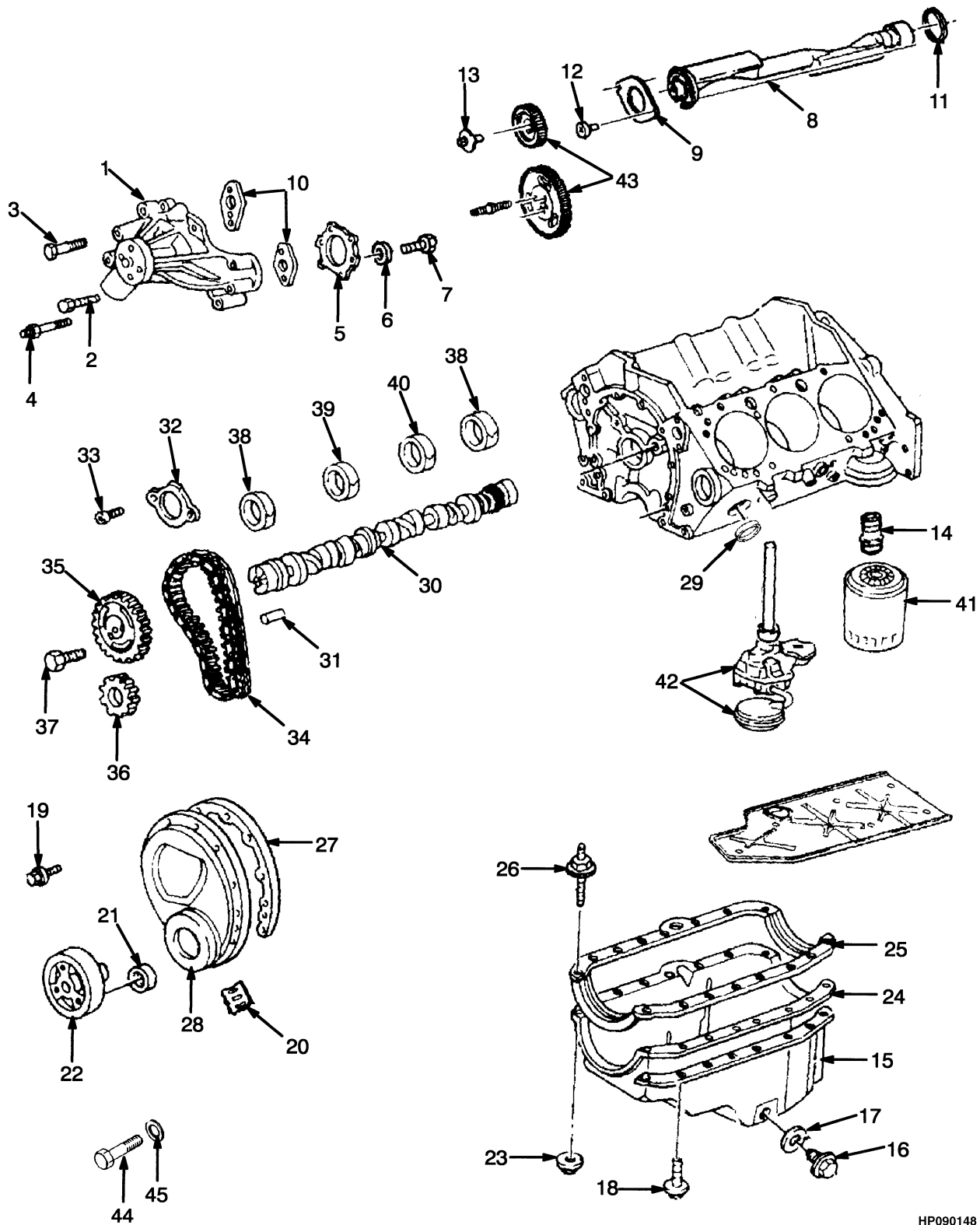
**CRANKSHAFT AND CAMSHAFT
GASOLINE AND LPG – 3KM 1993 SERIES ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
	1305165		
35	375551	Kit-Crankshaft Bearing (Standard)	1
36	1324015	Crankshaft Bearing (0.010 in.)	1
36	1324016	Bearing (0.020 in.)	1
36	1324017	Crankshaft Bearing (0.030 in.)	1
36	1324018	Bearing (0.040 in.)	1
37	263842	Bolt	8
38	1339967	Damper	1
39	375584	Nut	2
40	221544	Capscrew	1

NOTES

This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small gaps between them. There are no margins, text, or other markings on the paper.

CAMSHAFT AND OIL PAN (FIGURE 2-34) GASOLINE AND LPG — 4LM 1994 SERIES ENGINE

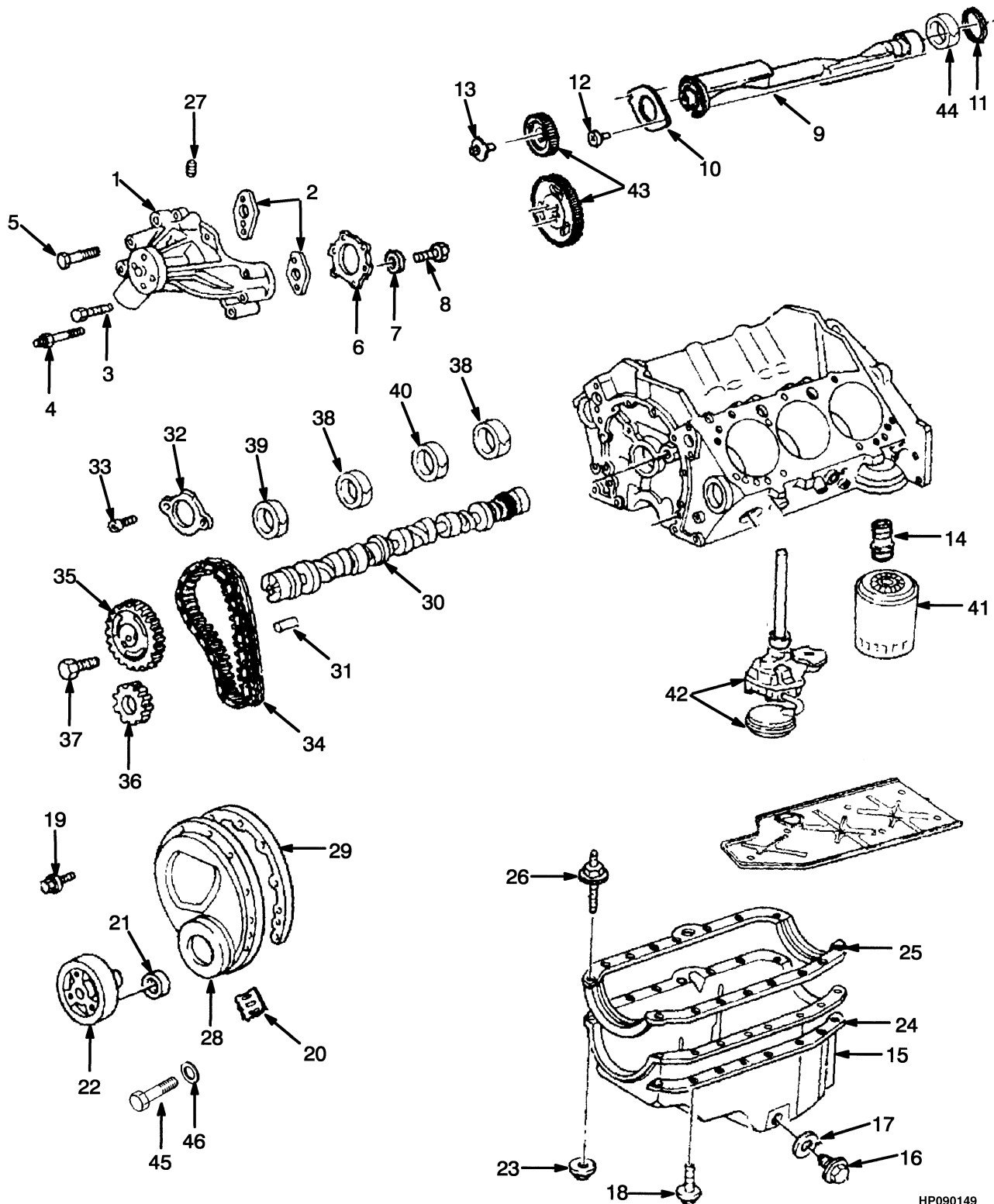


HP090148

CAMSHAFT AND OIL PAN GASOLINE AND LPG – 4LM 1994 SERIES ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1369493	Engine Assy-Gas	1
1	381355	Water Pump	1
2	1335240	Bolt	2
3	1374307	Bolt	2
4	263827	Stud	1
5	1374306	Gasket (Water Pump)	1
6	369748	Washer	1
7	133469	Capscrew	5
8	1374312	Shaft	1
9	1374326	Retainer	1
10	263828	Gasket	2
11	1374313	Plug	1
12	1339963	Bolt	2
13	1374317	Bolt	1
14	375587	Fitting (Oil Filter)	1
15	1306676	Oil Pan	1
16	308624	Screw	1
17	388305	Gasket	1
18	1376876	Bolt	16
19	1374108	Bolt	10
20	375589	Pointer	1
21	1374107		
	1690267	Oil Seal	1
22	1374304	Balancer	1
23	375584	Nut	4
24	1339971	Brace (LH) (Reinforcement)	1
24	1339972	Brace (RH) (Reinforcement)	1
25	375582	Gasket	1
26	375574	Stud	2
27	1374302	Gasket	1
28	1374303	Cover	1
29	159971	Plug	8
30	1374296	Camshaft	1
31	1374297	Pin	2
32	1374298	Retainer	1
33	1374299	Bolt	2
34	375616	Chain	1
35	1374300	Sprocket	1
36	375615	Sprocket	1
37	1374301	Bolt	1
38	301955	Bushing	2
39	301956	Bushing	1
40	301957	Bushing	1
41	1320000	Oil Filter	1
42	1374318	Oil Pump (☞ Figure 2-39).....	1
43	1374315	Kit-Gear (Balancer)	1
44	221544	Capscrew	1
45	4019024		
	1305165	Washer	1

CAMSHAFT AND OIL PAN (FIGURE 2-35) GASOLINE AND LPG — 5LM 1995 SERIES ENGINE

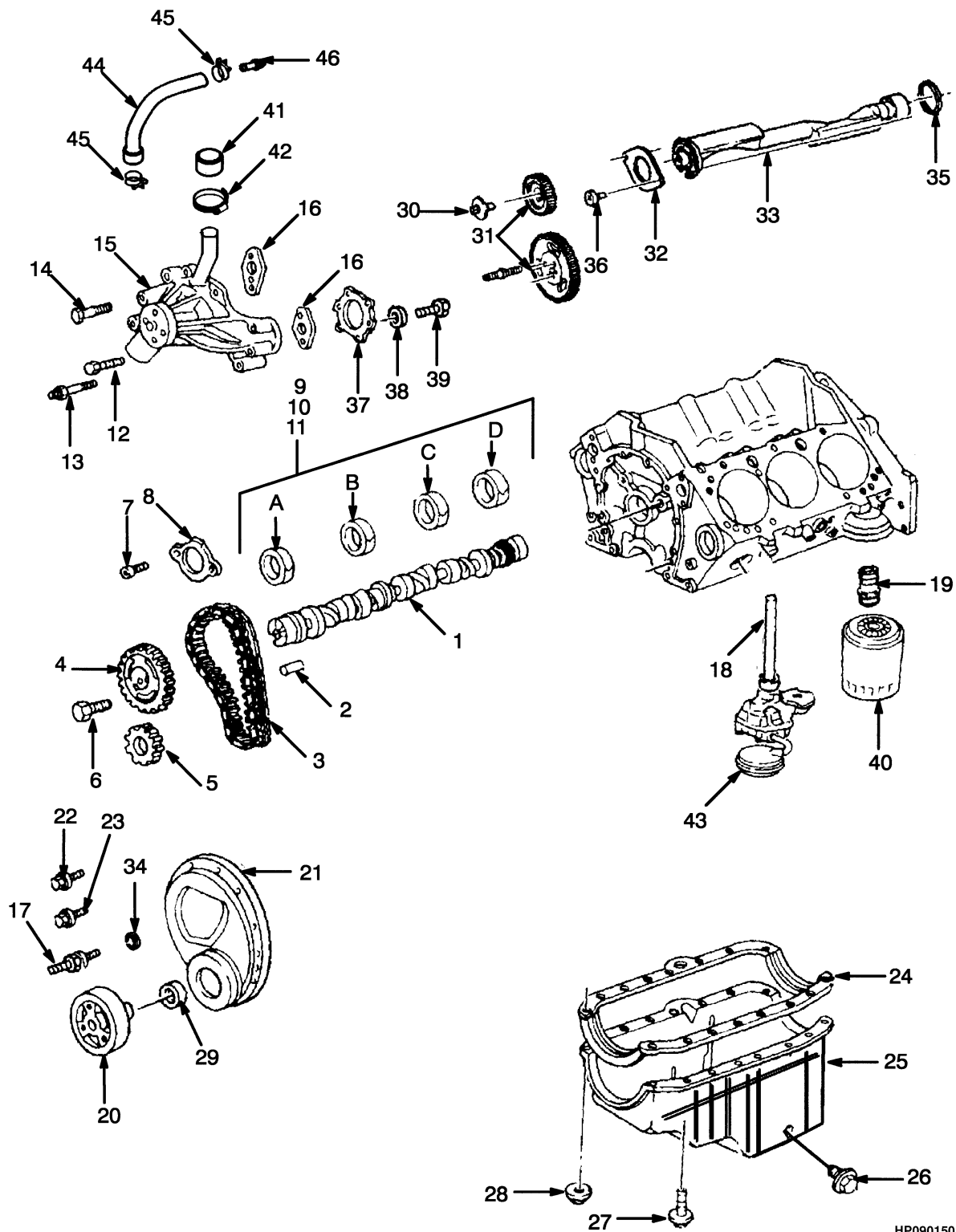


HP090149

CAMSHAFT AND OIL PAN GASOLINE AND LPG – 5LM 1995 SERIES ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
	1377796	Engine Assy-Gas	1
1	1377786	Water Pump	1
2	263828	Gasket	2
3	1374307	Bolt	2
4	263827	Stud	2
5	1335240	Bolt	1
6	1335494	Gasket (Water Pump)	1
7	369748	Washer	6
8	370169	Kit-Screw	5
9	1374312	Shaft (Balancer)	1
10	1374326	Retainer	1
11	1374313	Plug	1
12	1339963	Bolt	2
13	1374317	Bolt	1
14	375587	Fitting (Oil Filter)	1
15	1306676	Oil Pan	1
16	308624	Screw	1
17	388305	Gasket	1
18	1376876	Bolt	16
19	1377103	Bolt	10
20	375589	Pointer	1
21	1377104	Seal	1
22	1358085	Damper	1
23	1360178	Nut	4
24	1339971	Brace (LH)	1
24	1339972	Brace (RH)	1
25	375582	Gasket	1
26	388364	Stud	2
27	15303	Plug	1
28	1377787	Cover	1
29		Gasket	1
30	1374296	Camshaft	1
31	1374297	Pin	2
32	1374298	Retainer	1
33	1374299	Bolt	2
34	375616	Chain	1
35	1374300	Sprocket	1
36	375615	Sprocket	1
37	1374301	Bolt	1
38	301955	Bushing	2
39	301956	Bushing	1
40	301957	Bushing	1
41	1320000	Oil Filter	1
42	1374318	Oil Pump (☞ Figure 2-39).....	1
43	1374315	Kit-Gear (Balancer)	1
44	1374314	Bearing	1
45	221544	Capscrew	1
46	4019024		
	1305165	Washer	1

CAMSHAFT AND OIL SUMP (FIGURE 2-36) GASOLINE AND LPG — 1996 THRU 1999 SERIES ENGINE



HP090150

CAMSHAFT AND OIL SUMP

GASOLINE AND LPG – 1996 THRU 1999 SERIES ENGINE

KEY:**A: 6LX 1996 Series Engine****B: 7LX 1997 Series Engine****C: 8LX 1998 Series Engine****D: 9LX 1999 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1380300	Engine Assy-Gas	1	..	..	..
	1393582	Engine Assy-Gas	..	1	..	..
	1453581	Engine Assy-Lpg	..	..	1	..
	1459646	Engine Assy-Lpg	..	..	..	1
1	1374296	Camshaft	1	1	..	..
1	1456111	Camshaft	..	..	1	1
2	1374297	Pin	2	2	2	2
3	1450792	Chain	..	1	1	1
3	375616	Chain	1	..	..	..
4	1374300	Sprocket	1	1	1	1
5	375615	Sprocket	1	1	1	1
6	1374301	Bolt	3	3	3	3
7	1374299	Bolt	2	2	2	2
8	1374298	Retainer	1	1	1	1
9	b 1454955	Bearing (2.020) (Position A)	..	1	1	1
9	a 1454955	Bearing (2.020) (Position A, D)	..	2	2	2
9	301955	Bushing (Position A, D)	2	..	..	..
10	a 1454956	Bearing (2.010) (Position C)	..	1	1	1
10	b 1454956	Bearing (2.010) (Position B, D)	..	2	2	2
10	301956	Bushing (Position B)	1	..	..	..
11	a 1454957	Bearing (2.000) (Position B)	..	1	1	1
11	b 1454957	Bearing (2.000) (Position C)	..	1	1	1
11	301957	Bushing (Position C)	1	..	..	..
12	1374307	Bolt	2	..	..	..
12	1383257	Bolt	..	4	4	4
13	263827	Stud	2	..	..	..
14	1335240	Bolt	1	..	..	..
15	1389100	Water Pump	1	..	1	1
15	1450553	Kit-Repair Water Pump	..	1	..	..
16	263828	Gasket	2	2	2	2
17	1389091	Stud	..	..	..	1
17	159977	Pin	6	6	6	..
18	1386176	Engine Oil Pump (6LX 1996, 7LX 1997, 8LX 1998, 9LX 1999-2001 Series Engine) (☞Figure 2-40).....	1	1	1	1
19	375587	Fitting (Oil Filter)	1	1	1	1
20	1386178	Damper	1	1	1	1
20	1451319	Key	1	1	1	1
21	1386180	Cover	1	1	1	1
22	1386179	Bolt	3	3	3	3
23	1377103	Bolt	2	2	2	2
24	1386184	Gasket (Oil Pan) (Oil Sump)	1	1	1	1
25	1389104	Oil Pan	1	1	1	..
25	1460756	Oil Pan	..	..	..	1

CAMSHAFT AND OIL SUMP GASOLINE AND LPG – 1996 THRU 1999 SERIES ENGINE

KEY:
A: 6LX 1996 Series Engine

B: 7LX 1997 Series Engine

C: 8LX 1998 Series Engine

D: 9LX 1999 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
26	1460757	Screw	1	1	1	1
26	1460758	Gasket	..	..	..	1
26	388305	Gasket	1	1	1	..
27	1386183	Bolt	10	10	10	10
28	1360178	Nut	2	2	2	2
29	1377104	Seal	1	1	1	1
30	1374317	Bolt	..	..	..	1
31	1374315	Kit-Gear (Balancer)	1	1	1	1
32	1374326	Retainer	1	1	1	1
33	1377107	Shaft (Balancer)	1	1	1	1
34	1374313	Plug	1	1	1	1
35	1374314	Bearing	1	1	1	1
36	1339963	Bolt	2	2	2	2
37	1335494	Gasket	1	1	1	..
37	1460322	Gasket	..	..	..	1
38	369748	Washer	10	10	10	6
39	1374108	Bolt	10	10	10	1
40	1320000	Oil Filter	1	1	1	1
41	1383263	Cap	1	1	1	1
42	130845	Clamp	1	1	1	1
43	1386177	Screen (Oil Pump)	1	..	..	1
43	1451320	Screen (Oil Pump)	..	1	1	..
44	1392547	Hose	1	1	1	..
44	1460332	Hose Assy (Water Pump Bypass)	..	..	..	1
45	1392548	Clamp	2	2	2	2
46	1393350	Fitting	1	1	1	1
	1460768	Kit-Bearing	1	1	1	1
	1454974	Bearing Set	1	1	1	1

FOOTNOTES:

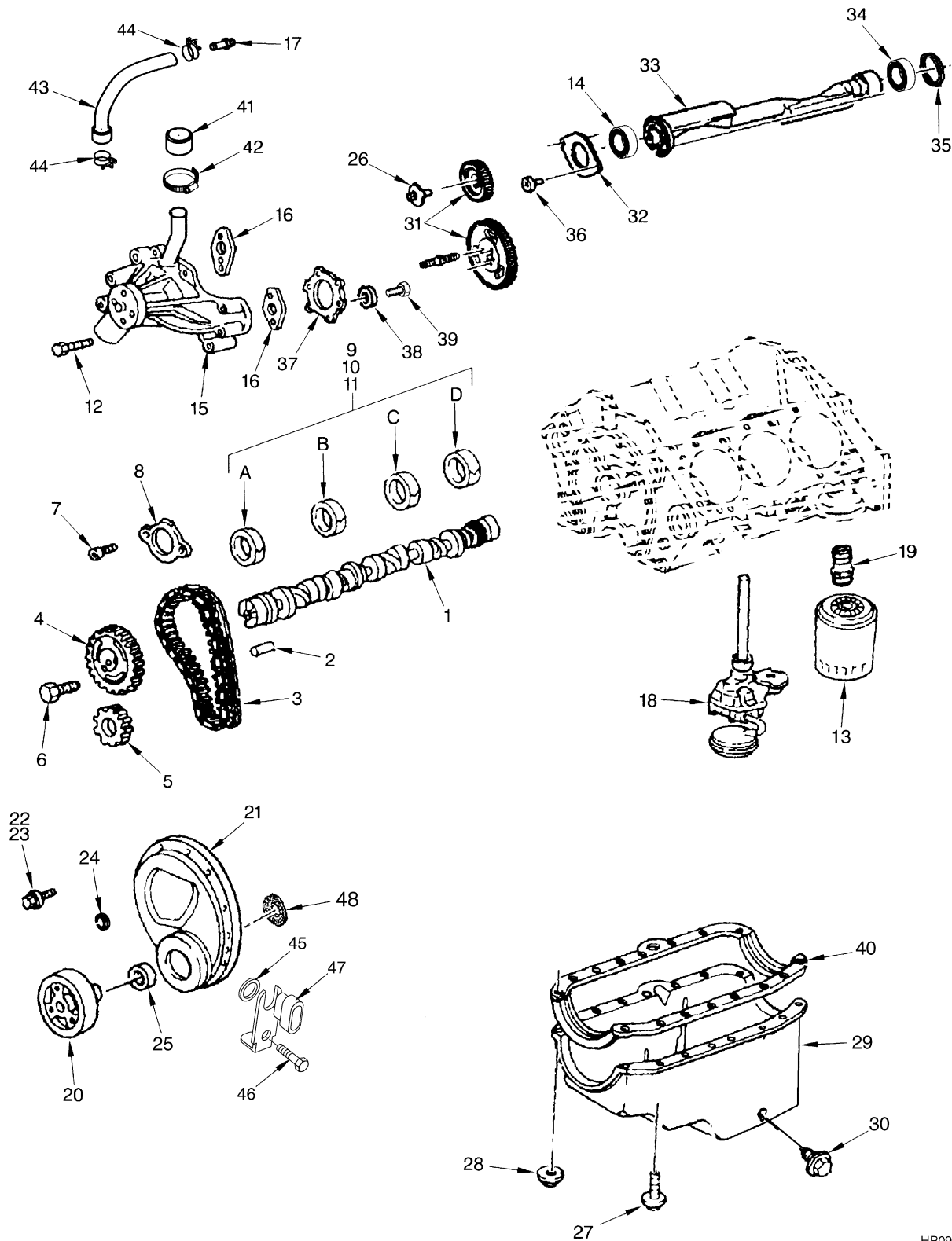
a GM Identification Number on Left Side of Rear Transmission Housing is 8 Digits

b GM Identification Number on Left Side of Rear Transmission Housing Starts with "A" Followed by 8 Digits

NOTES

[illegible]

CAMSHAFT AND OIL PAN (FIGURE 2-37) GASOLINE AND LPG — 2000 SERIES ENGINE



HP090252

**CAMSHAFT AND OIL PAN
GASOLINE AND LPG – 2000 SERIES ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
	1467585	Engine Assy-Lpg (0LX 2000 Series Engine)	1
	1485262	Engine Assy-Lpg (1LX 2001 Series Engine)	1
	1506843	Engine Assy-Lpg (2MY 2002 Series Engine)	1
	c 1524200	Engine Assy-Lpg (3MY 2003 Series Engine)	1
	d 1585577	Engine Assy-Gas (4MY 2004 Series Engine)	1
1	1456111	Camshaft	1
2	1374297	Pin	1
3	1471556	Kit-Repair Cable Chain	1
4		Sprocket	1
5		Sprocket	1
6	1374301	Bolt	3
7	1374299	Bolt	2
8	1374298	Retainer	1
9	b 1454955	Bearing (2.020) (Position A, D)	2
9	a 1454955	Bearing (2.020) (Position A)	1
10	b 1454956	Bearing (2.010) (Position C)	1
10	a 1454956	Bearing (2.010) (Position B, D)	2
11	b 1454957	Bearing (2.000) (Position B)	1
11	a 1454957	Bearing (2.000) (Position C)	1
12	1383257	Bolt	4
13	1320000	Oil Filter	1
13	2038072	Oil Filter (Optional)	1
14	1451321	Bearing	1
15	1389100	Water Pump	1
16	263828	Gasket	2
17	1393350	Fitting	1
18	1386176	Engine Oil Pump	1
19	375587	Fitting	1
20	1386178	Damper (2000 and 2001 Series Engine)	1
20	1514969	Damper (2MY 2002 Series Engine)	1
20	1451319	Key	1
21	1386180	Cover (2000 and 2001 Series Engine)	1
21	1514268	Engine Cover (2MY 2002 Series Engine)	1
22	1386179	Bolt	3
23	1377103	Bolt	2
24	1389092	Grommet	1
25	1377104	Seal	1
26	1374317	Bolt	6
27	1386183	Bolt	10
28	1360178	Nut	2
29	1471558	Oil Pan	1
30	1460757	Screw	1
30	1460758	Gasket	1
31	1374315	Kit-Gear	1
32	1374326	Retainer	1
33	1377107	Shaft	1
34	1374314	Bearing	1
35	1374313	Plug	1
36	1339963	Bolt	2
37	1460322	Gasket	1

CAMSHAFT AND OIL PAN GASOLINE AND LPG – 2000 SERIES ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
38	369748	Washer	5
39	1374108	Bolt	10
40	1386184	Gasket (Oil Pan)	1
41	1383263	Cap	1
42	130845	Clamp	1
43	1460332	Hose Assy (Water Pump Bypass)	1
44	1471560	Clamp	2
45	1514964	O-Ring	1
46	1514965	Bolt	1
47	1514963	Sensor (Crankshaft Position)	1
48	1514962	Ring (Crankshaft Position Sensor)	1
	1460768	Kit-Bearing	1
	1454974	Bearing Set	1

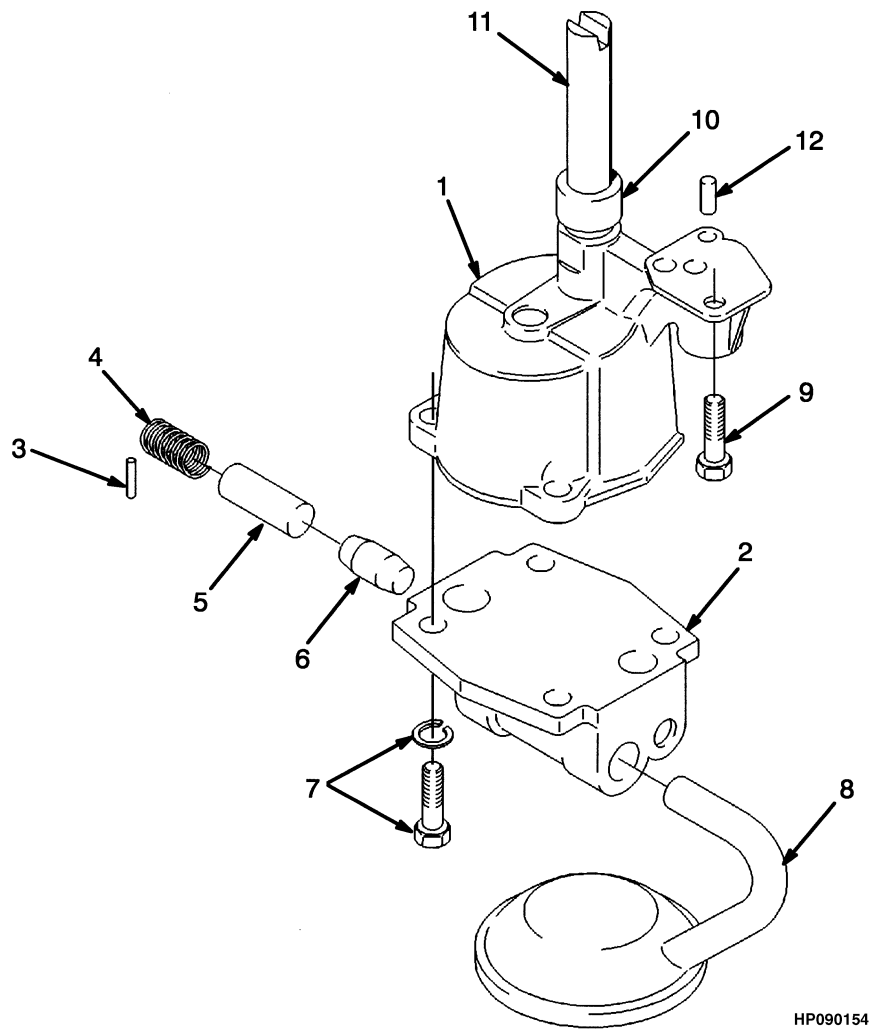
FOOTNOTES:

- a** GM Identification Number on Left Side of Rear
Transmission Housing Starts with "A" Followed by
8 Digits
- b** GM Identification Number on Left Side of Rear
Transmission Housing is 8 Digits
- c** → S/N F006V02324A
- d** S/N F006V02325A →

NOTES

[illegible]

OIL PUMP (FIGURE 2-38)
GASOLINE AND LPG — 1986 THRU 1993 SERIES ENGINE



OIL PUMP

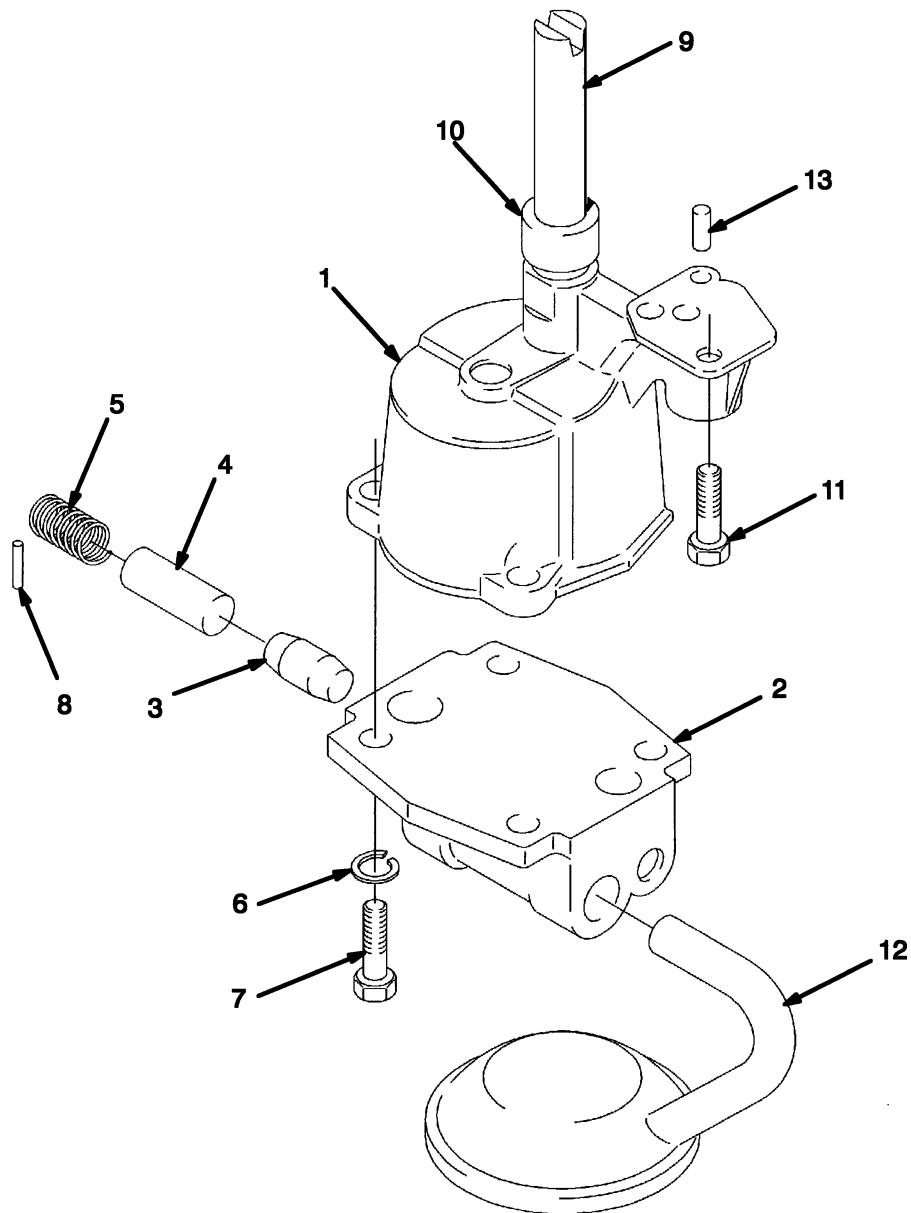
GASOLINE AND LPG – 1986 THRU 1993 SERIES ENGINE

KEY:

- A:** 6KM 1986 Series Engine
B: 7KM 1987 Series Engine
C: 8KM 1988 and 9KM 1989 Series Engine
D: 0KM 1990 and 1KM 1991 Series Engine
E: 2KM 1992 and 3KM 1993 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY				
			A	B	C	D	E
1	1304785	Engine Oil Pump	..	1	1	1	..
1	1307962	Oil Pump	1	..	..	..	1
2		Cover	1	..	..	1	..
2	1304786	Cover	..	1	..	..	1
2	1306678	Cover	..	..	1	..	..
3	149845	Pin	1	1	1	1	..
3	1330453	Pin	..	..	..	..	1
4	145177	Spring	1	..	..	..	1
4	388352	Spring	..	1	1	1	..
5	268573	Regulator Valve	1	1	1	1	1
6	1338223	Stop	..	..	..	..	1
7	15154	Lockwasher	4	4	4	4	..
7	16709	Screw	4	4	4	4	..
7	1333541	Kit-Screw	..	..	..	..	4
8	375585	Screen	1	1	1	1	1
9	263849	Bolt	1	..	..	..	..
9	388306	Bolt	..	1	1	1	1
10	263795	Retainer	1	1	1	1	1
11	263794	Shaft	1	1	1	1	1
12	1450941	Pin	..	..	..	..	1

OIL PUMP (FIGURE 2-39)
GASOLINE AND LPG — 1994 THRU 1995 SERIES ENGINE



HP090185

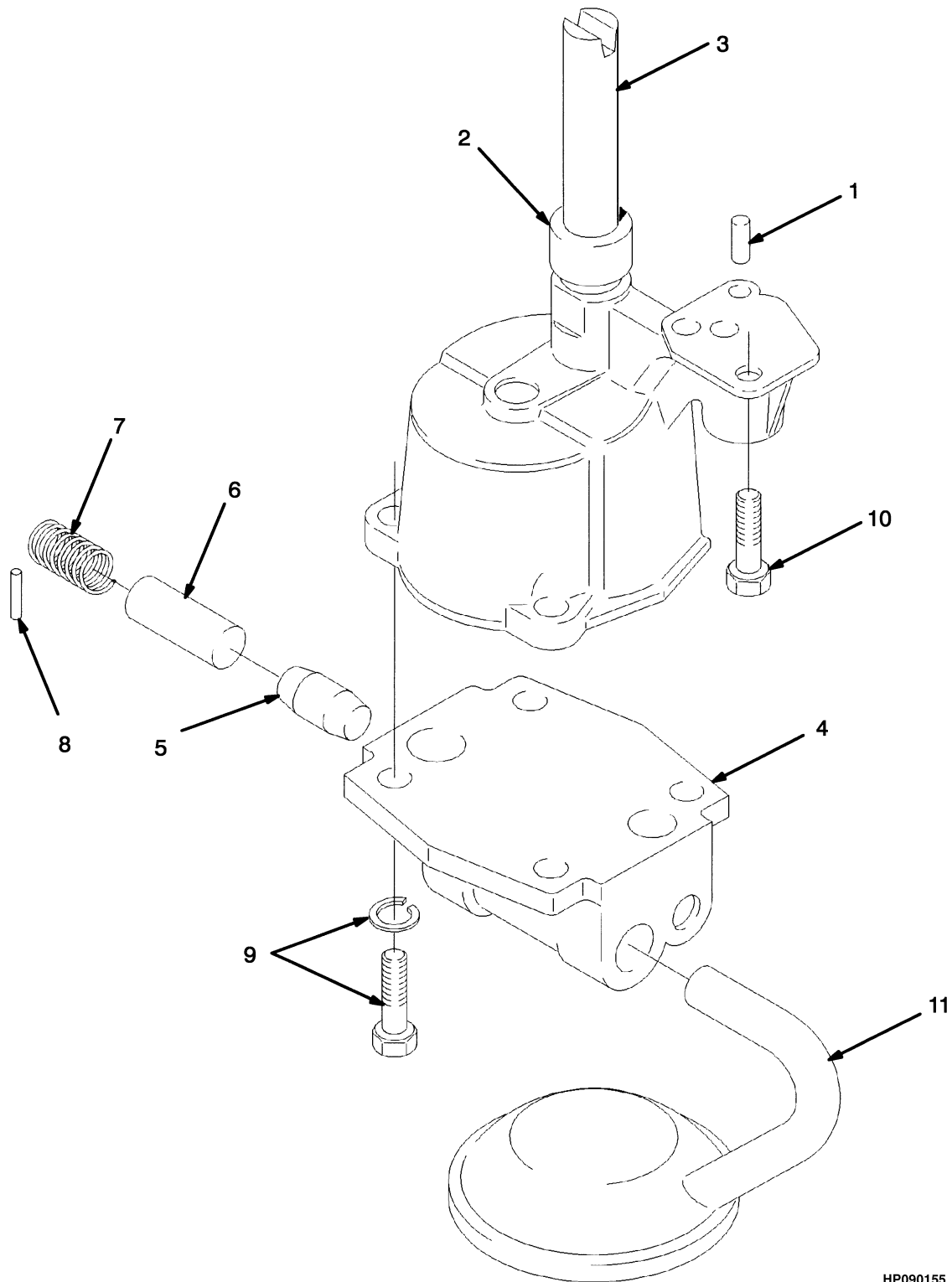
OIL PUMP

GASOLINE AND LPG – 1994 THRU 1995 SERIES ENGINE

KEY:**A: 4LM 1994 Series Engine****B: 5LM 1995 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1377796	Engine Assy-Gas	..	1
	1369493	Engine Assy-Gas	1	..
1	1374318	Oil Pump	1	1
2	1374319	Cover	1	1
3	1338223	Stop	1	1
4	268573	Regulator Valve	1	1
5	1374320	Spring	1	1
6	1376882	Bolt	4	4
7	1333541	Kit-Screw	4	4
8	1330453	Pin	1	1
9	263794	Shaft	1	1
10	263795	Retainer	1	1
11	388306	Bolt	1	1
12	1374321	Screen	1	1
13	263844	Pin	2	2

OIL PUMP (FIGURE 2-40) GASOLINE AND LPG — 1996 THRU 2002 SERIES ENGINE



HP090155

OIL PUMP

GASOLINE AND LPG – 1996 THRU 2002 SERIES ENGINE

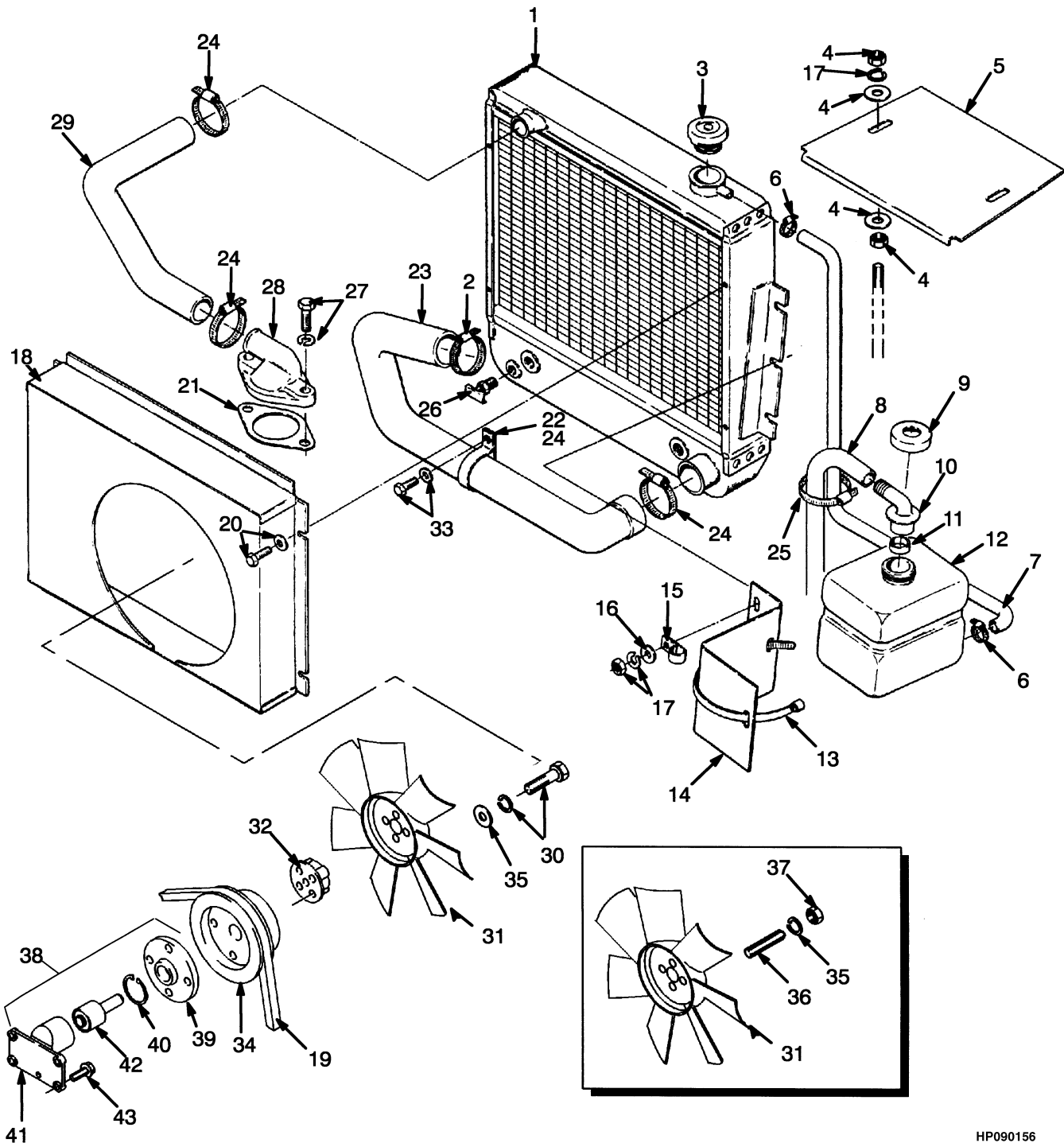
KEY:

- A:** 6LX 1996 Series Engine
B: 7LX 1997 Series Engine
C: 8LX 1998 Series Engine
D: 9LX 1999-2001 Series Engine
E: 2MY 2002 Series Engine

ITEM	PART NO.	DESCRIPTION	QTY				
			A	B	C	D	E
	1380300	Engine Assy-Gas	1	..	..	..	..
	1393582	Engine Assy-Gas	..	1	..	..	..
	1453581	Engine Assy-Lpg	..	..	1	..	..
	1459646	Engine Assy-Lpg	..	..	..	1	..
	1467584	Engine Assy-Lpg (2000)	..	..	..	1	..
	1506843	Engine Assy-Lpg (2MY 2002 Series)	..	..	..	..	1
	a 1524200	Engine Assy-Lpg (3MY 2003 Series)	..	..	..	..	1
	b 1585577	Engine Assy-Gas (4MY 2004 Series)	..	..	..	..	1
	1386176	Engine Oil Pump	1	1	1	1	1
1	1450941	Pin	2	2	2	2	2
2	263795	Retainer	1	1	1	1	1
3	263794	Shaft	1	1	1	1	1
4	1374319	Cover	1	1	1	1	1
5	1338223	Stop	1	1	1	1	1
6	268573	Regulator Valve	1	1	1	1	1
7	1374320	Spring	1	1	1	1	1
8	1330453	Pin	1	1	1	1	1
9	1333541	Kit-Screw	2	2	2	2	2
10	388306	Bolt	1	1	1	1	1
11	1386177	Screen	1	..	..	1	1
11	1451320	Screen	..	1	1	..	..

FOOTNOTES:**a** → S/N F006V02324A**b** S/N F006V02325A →

COOLING (FIGURE 2-41) DIESEL



HP090156

**COOLING
DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	b 1387255	Radiator (Oil Clutch)	1
1	1456899	Radiator (Powershift)	1
2	de 112989	Hose Clamp	1
3	178899	Radiator Cap	1
4	15055	Nut	2
4	221733	Washer	2
5	350052	Cover	1
6	353310	Clamp	2
7	1302955	Hose	1
8	339735	Hose	1
9	345454	Cap	1
10	1359581	Outlet	1
11	336550	Bushing	1
12	344432	Reservoir	1
13	340204	Strap	1
14	340203	Bracket	1
15	124297	Clamp	1
16	320158	Washer	4
17	239503	Nut	4
17	292681	Lockwasher	4
18	a 373110	Shroud	1
18	de 377342	Shroud	1
19	a 985420	V-Belt	1
19	cde 377333	V-Belt (Without Low Emissions)	1
19	f 1455809	V-Belt (With Low Emissions)	1
20	16073	Screw	4
20	15127	Washer	4
21	a 1345752	Gasket	1
22	a 313221	Clamp	1
23	a 344373	Radiator Hose (Lower)	1
23	de 377337	Radiator Hose (Lower)	1
24	119236	Clamp	4
25	137852	Strap Clamp	1
26	12815	Drain Valve (Drain)	1
27	a 16814	Capscrew	2
27	a 15156	Lockwasher	2
28	a 352832	Elbow	1
29	a 344372	Radiator Hose (Upper)	1
29	de 377336	Radiator Hose (Upper)	1
30	a 18510	Capscrew	4
30	cde 292509	Capscrew (Without Low Emissions)	4
30	a 15155	Lockwasher	4
30	cde 292681	Lockwasher (Without Low Emissions)	4
31	a 353100	Fan	1
31	de 377331	Fan	1
32	a 170999	Extension	1
32	cde 161527	Adapter (Without Low Emissions)	1
32	f 1455580	Spacer (With Low Emissions)	1
33	a 227180	Screw	1
33	a 15127	Washer	1

COOLING DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
34	c 1374447	Pulley (Without Low Emissions)	1
34	f 1455578	Fan Pulley (With Low Emissions)	1
35	292681	Lockwasher	4
36	f 292511	Capscrew (With Low Emissions)	4
37	f	Locknut (With Low Emissions)	1
38	1347275	Kit-Fan Drive	1
39		Hub	1
40	982328	Snap Ring	1
41		Housing	1
42		Bearing	1
43	1343174	Screw	4
	996016	Kit-Cooling	1

FOOTNOTES:

a → S/N F006A03039
b → S/N F006D03779
c → S/N F006D04442

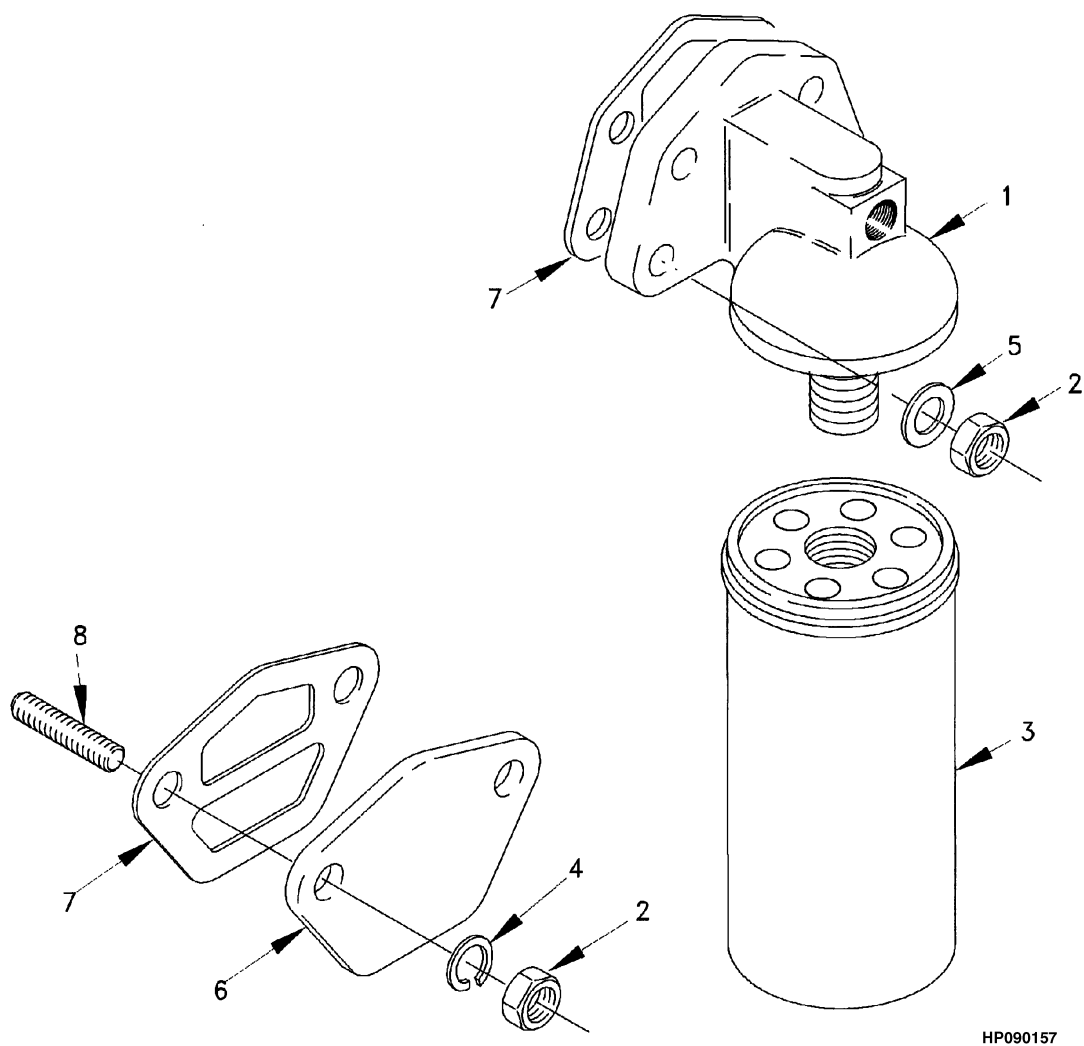
d S/N F006A03040 →
e S/N F006D01501 →
f S/N F006D04443 →

NOTES

[illegible]

OIL FILTER (FIGURE 2-42)

DIESEL 4.248.2 (→ S/N F006A03039)

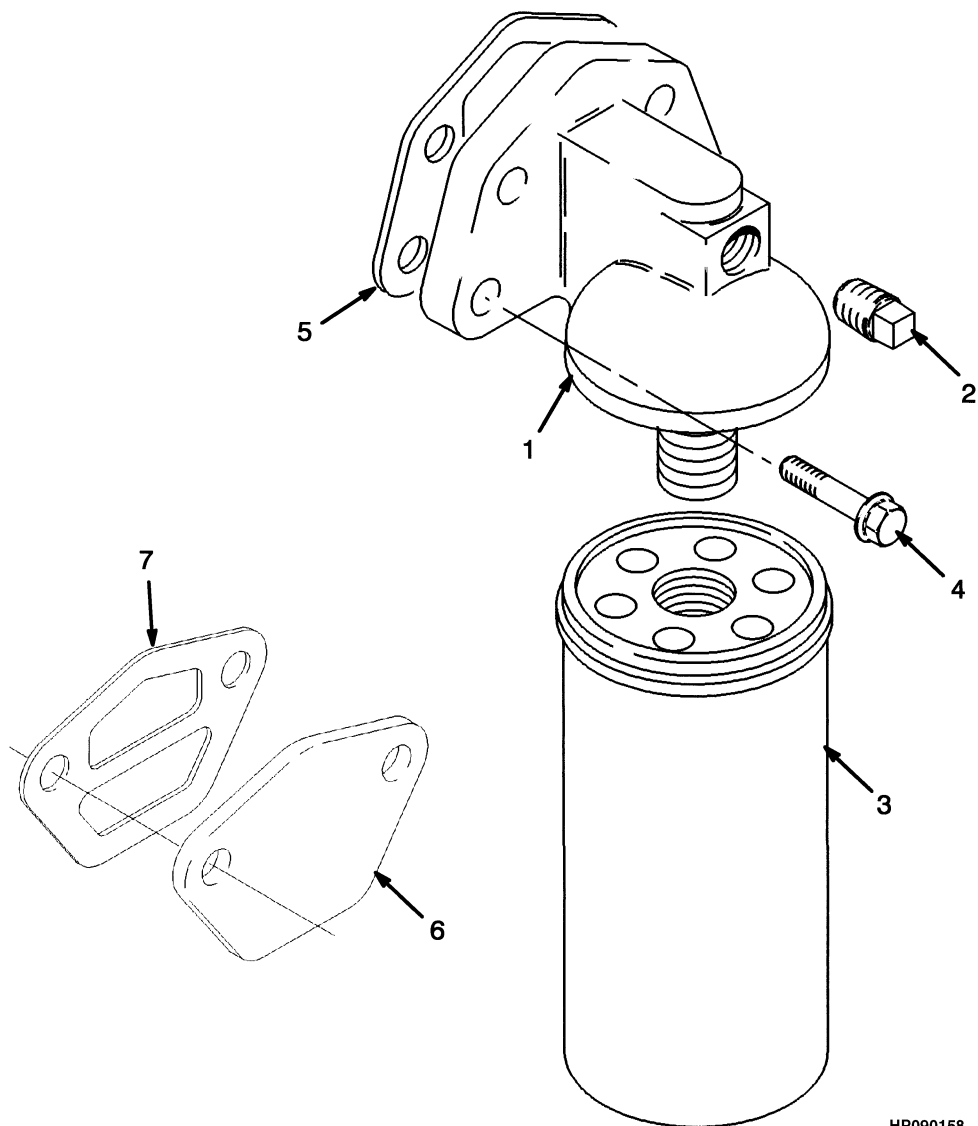


HP090157

OIL FILTER
DIESEL 4.248.2 (→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
	387459	Engine Assy-Diesel	1
1	251756	Filter Head	1
2	15007	Nut	4
3	195852	Oil Filter	1
4	15157	Lockwasher	2
5	158758	Washer	2
6	268993	Plate	1
7	249466	Gasket	1
8	229826	Stud	2
	372727	Kit-Gasket	1

OIL FILTER (FIGURE 2-43)
DIESEL 1004.4 (S/N F006D01501 →) (S/N F006A03040 →)



HP090158

OIL FILTER**DIESEL 1004.4 (S/N F006D01501 →) (S/N F006A03040 →)**

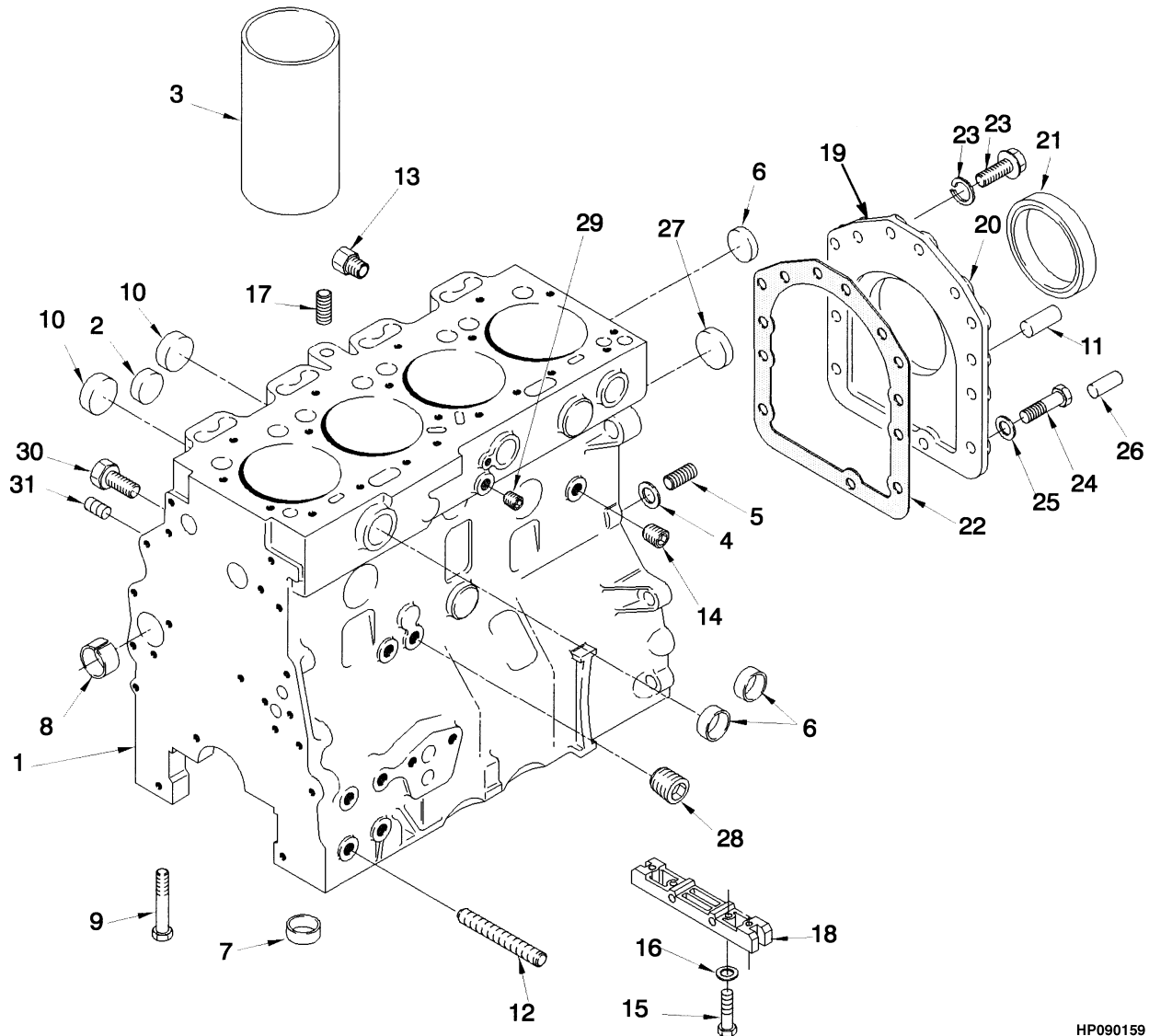
ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel (With Low Emissions)	1
	377323	Engine Assy-Diesel	1
1	1315767	Head	1
2	15304	Fitting	1
3	195852	Oil Filter	1
4	a 1307915	Capscrew	4
4	c 1307893	Screw	4
5	c 1345800	Gasket	1
6	1374982	Plate	1
7	a 1371719	Gasket	1
	b 1391776	Kit-Cylinder Block	1
	d 1557661	Kit-Cylinder Block	1

FOOTNOTES:

a → U646744y
b → U707727a

c U646745y →
d U707728a →

CYLINDER BLOCK (FIGURE 2-44) DIESEL 4.248.2 (→ S/N F006A03039)



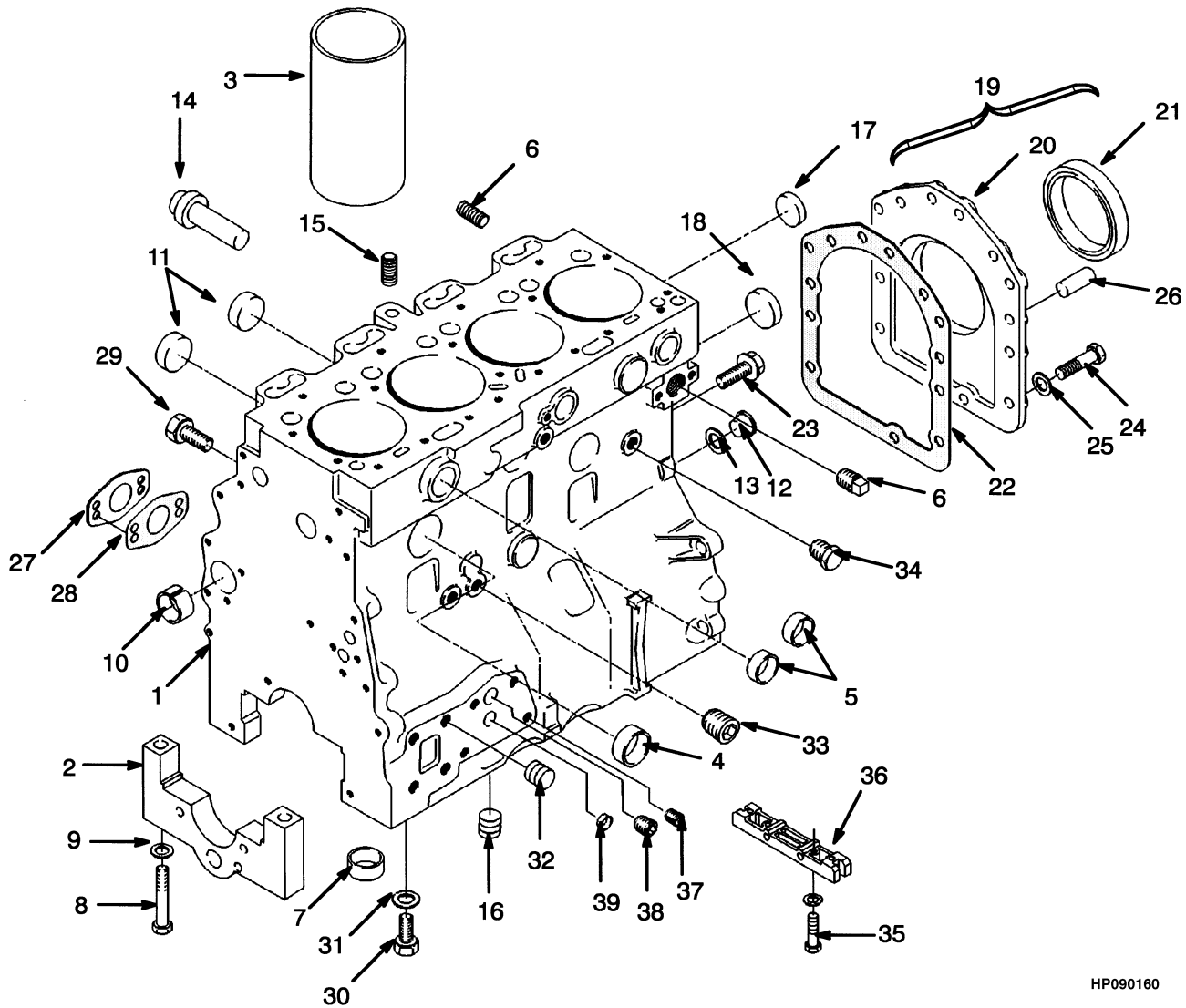
HP090159

CYLINDER BLOCK
DIESEL 4.248.2 (→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
	387459	Engine Assy-Diesel	1
1		Cylinder Block	1
2	229802	Plug	4
3	1312876	Cylinder Liner	4
4	984632	Washer	1
5	161385	Plug	1
6	990334	Plug	9
7	99576	Thimble	10
8	257603	Bushing	1
9	16794	Capscrew	10
10	161383	Plug	5
11	158139	Dowel	2
12	381046	Plug	8
13	245800	Plug	1
14	349378	Plug	2
15	99600	Screw	2
16	144613	Washer	2
17	992393	Plug	1
18	1369080	Bridge	1
19	1369077	Housing	1
20		Cover	1
21	350397	Seal	1
22	1379734	Gasket	1
23	18515	Washer	10
23	16825	Capscrew	10
24	14466	Capscrew	2
25	328043	Washer	2
26	982143	Dowel	2
27	99585	Plug	1
28	982155	Plug	1
29	221285	Screw	1
30	16372	Capscrew	1
31	327918	Plug	1
	372727	Kit-Gasket	1

CYLINDER BLOCK (FIGURE 2-45)

DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)



HP090160

CYLINDER BLOCK**DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)**

ITEM	PART NO.	DESCRIPTION	QTY
	377323	Engine Assy-Diesel	1
	1463594	Short Block	1
1		Cylinder Block	1
2		Bearing Cap	5
3	1305696	Cylinder Liner	4
3	1473597	Cylinder Liner	4
4	1390126	Plug	1
4	349377	Plug	1
5	980727	Plug	6
6	15304	Fitting	1
7	99576	Thimble	10
8	16794	Capscrew	10
9	301836	Washer	10
10	1451625	Bushing	1
11	161383	Plug	3
11	385531	Plug	3
11	385531	Plug	6
12	161385	Plug	1
13	984632	Washer	1
14	365854	Plug	1
15	992393	Plug	1
16	170748	Plug	1
17	99582	Plug	4
18	1388387	Plug	1
19	1369077	Housing	1
20		Cover	1
21	350397	Seal	1
22	1379734	Gasket	1
23	386459	Screw	10
24	1369081	Screw	2
25	328043	Washer	2
26	158139	Dowel	2
27	1305698	Plate	1
28	1345784	Gasket	1
29	1306349	Screw	2
30	16372	Capscrew	4
31	152605	Spacer	4
32	1306341	Plug	4
33	15483	Fitting	1
34	245800	Plug	1
35	1307875	Screw	2
36	a 1319537	Bridge	1
36	c 1555423	Bridge	1
37	d 1318904	Plug	2
38	d 150879	Fitting	1
39	d 158017	Plug	1
	1371723	Kit-Gasket	1
	b 1391776	Kit-Cylinder Block	1
	e 1557661	Kit-Cylinder Block	1

FOOTNOTES:

a → U503404u

b → U707727a

c U503405u →

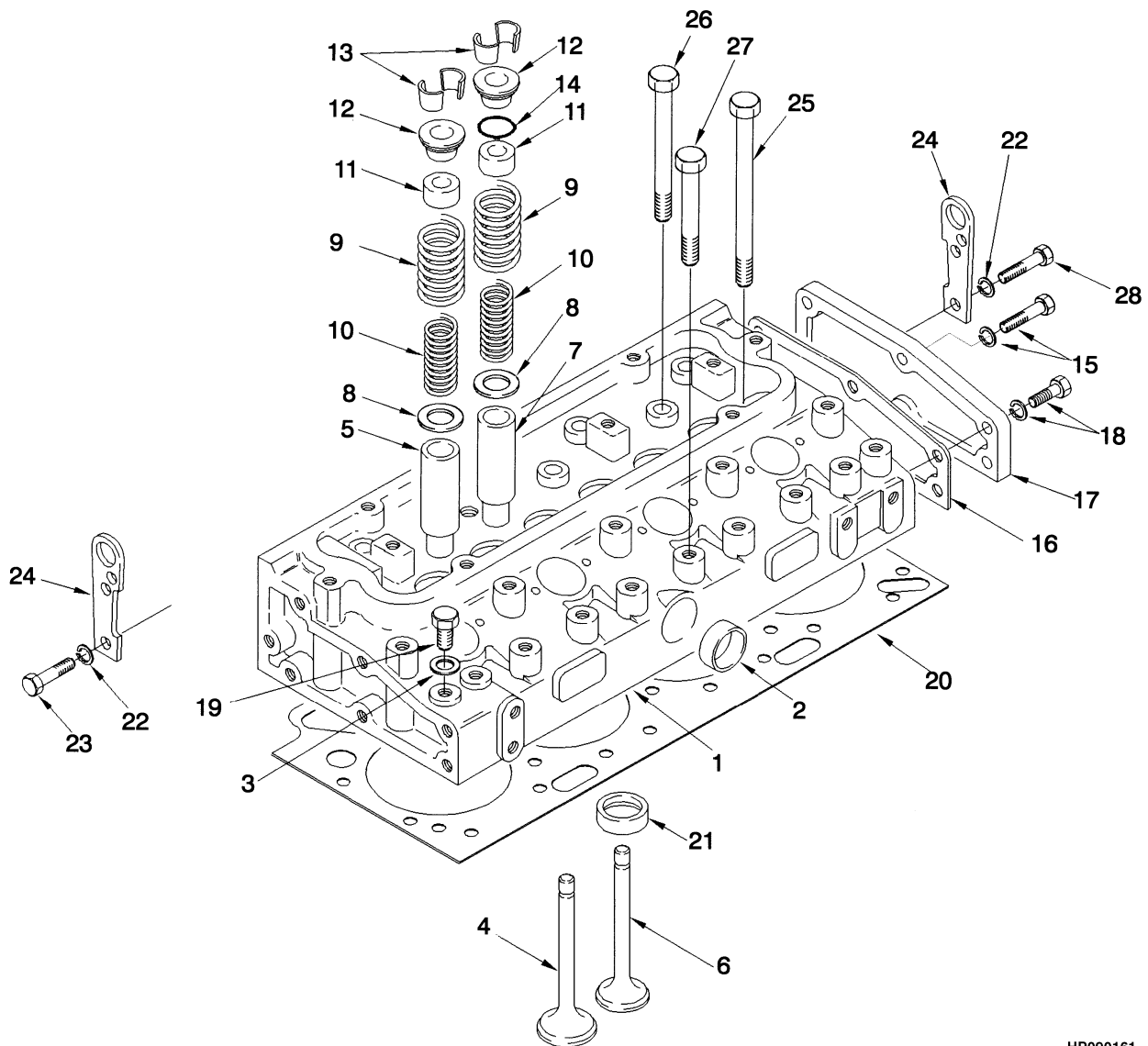
d U646745y →

e U707728a →

NOTES

[illegible]

CYLINDER HEAD (FIGURE 2-46) DIESEL 4.248.2 (→ S/N F006A03039)



HP090161

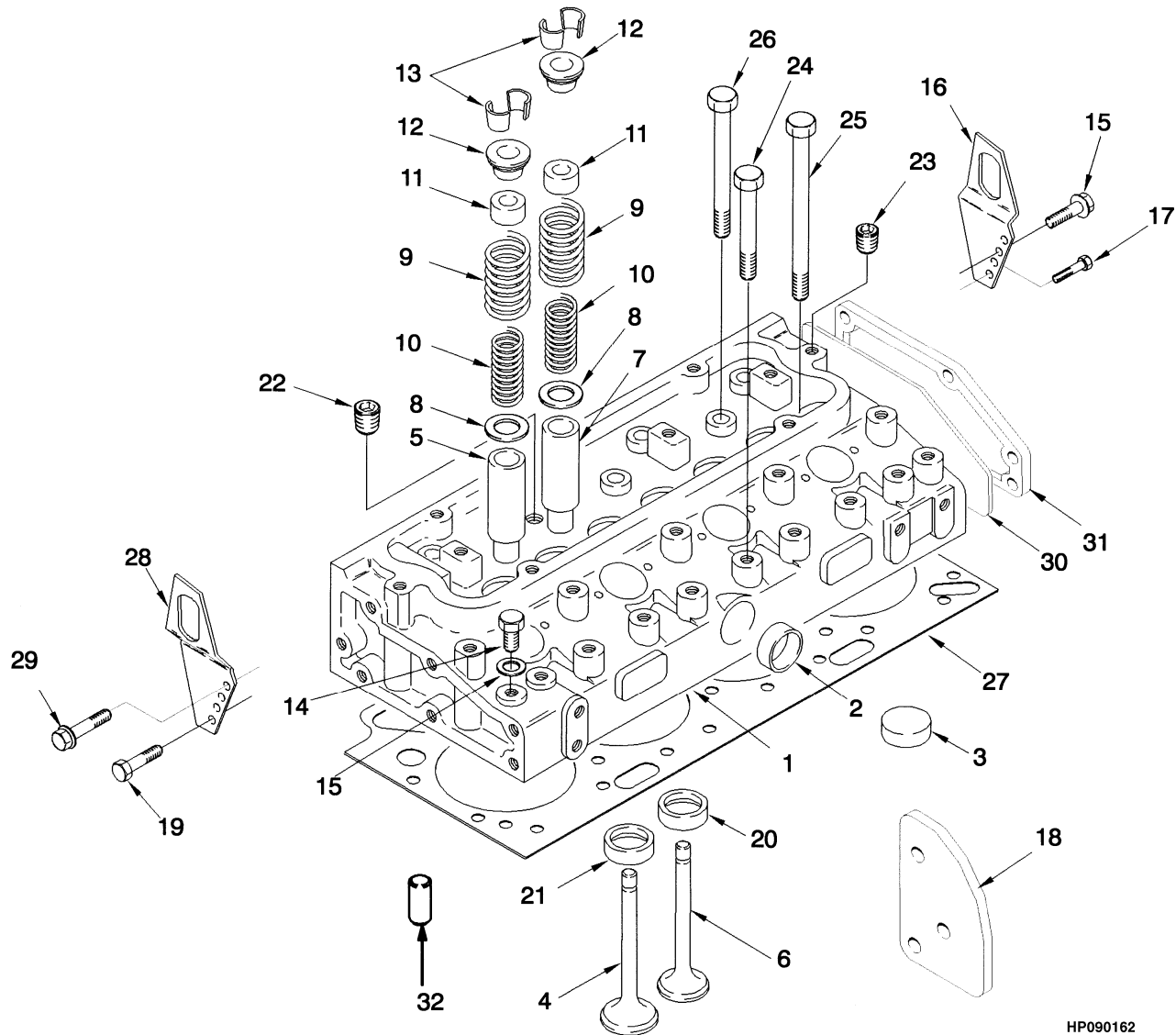
CYLINDER HEAD
DIESEL 4.248.2 (→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
	387459	Engine Assy-Diesel	1
1	374280	Cylinder Head	1
2	990334	Plug	1
3	328045	Washer	1
4	161400	Inlet Valve (0.003 in.)	4
4	161401	Inlet Valve (0.020 in.)	4
4	161402	Inlet Valve (0.030 in.)	4
4	a 229849	Inlet Valve (Standard)	4
5	1382073	Guide	4
6	a 327922	Exhaust Valve (Standard)	4
6	327923	Exhaust Valve (0.003 in.)	4
6	327924	Exhaust Valve (0.020 in.)	4
6	328000	Exhaust Valve (0.030 in.)	4
7	1305714	Guide	4
8	99569	Washer	8
9	99568	Spring	8
10	99567	Spring	8
11	187004	Seal	8
12	341871	Cap	8
13	99571	Keeper	16
14	341872	Ring	4
15	15156	Lockwasher	2
15	16811	Capscrew	2
16	1369074	Gasket	1
17	1306199	Plate	1
18	15155	Lockwasher	4
18	16818	Capscrew	4
19	992025	Plug	1
20	c 1344907	Gasket	1
20	b 195341	Cylinder Head Gasket	1
21	173897	Insert	4
22	15156	Lockwasher	4
23	16814	Capscrew	2
24	161416	Plate	2
25	b 195344	Capscrew	2
25	c 386061	Screw	2
26	b 195343	Capscrew	12
26	c 386062	Screw	12
27	b 195342	Capscrew	8
27	c 386063	Screw	8
28	16696	Capscrew	2
	349781	Gasket	1

FOOTNOTES:**a** Cylinder Head has Standard Valves**c** U027631m →**b** → U027630m

CYLINDER HEAD (FIGURE 2-47)

DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)



HP090162

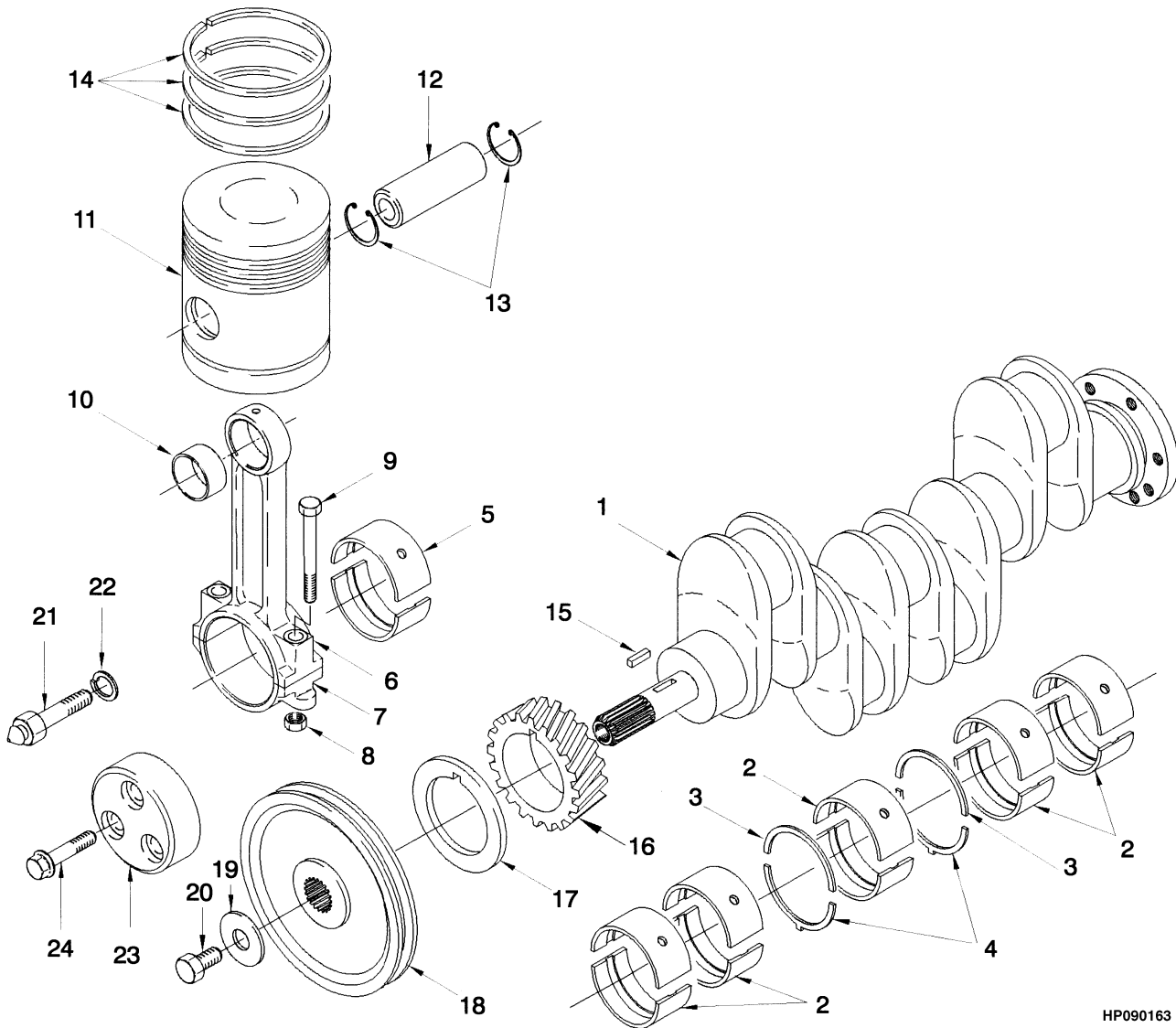
CYLINDER HEAD**DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)**

ITEM	PART NO.	DESCRIPTION	QTY
	377323	Engine Assy-Diesel	1
1		Cylinder Head	1
2	980727	Plug	1
3	349380	Plug	4
4	1305711	Inlet Valve (Standard)	4
5	1382073	Guide	4
6	371536	Exhaust Valve (Standard)	4
7	1305714	Guide	4
8	99569	Washer	8
9	1305715	Spring	8
10	1305716	Spring	8
11	187004	Seal	8
12	1305717	Cap	8
13	99571	Keeper	16
14	992025	Plug	1
15	986475	Washer	1
16	1306347	Plate	1
17	1306371	Screw	2
18	1315750	Plate	1
19	1315499	Screw	1
20	1382475	Insert	4
21	1305709	Insert	4
22	15962	Fitting	1
23	15302	Plug	4
24	195342	Capscrew	8
25	361336	Screw	2
26	195343	Capscrew	12
27	1323017	Gasket	1
27	c 1388444	Cylinder Head Gasket	1
28	1306346	Plate	1
29	1307910	Capscrew	4
30	1369074	Gasket	1
31	1306199	Plate	1
32	c 162288	Dowel	2
	a 1523917	Kit-Gasket	1
	b 1528139	Kit-Gasket	1
	1456064	Kit-Cylinder Head	1

FOOTNOTES:**a** → U600869w**c** U707727aw →**b** U600870w ↔ U707726aw

CRANKSHAFT AND PISTON (FIGURE 2-48)

DIESEL 4.248.2 (→ S/N F006A03039)



HP090163

CRANKSHAFT AND PISTON
DIESEL 4.248.2 (→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
	a 387459	Engine Assy-Diesel	1
1	340874	Crankshaft	1
1	385203	Crankshaft	1
2	161425	Kit-Crankshaft Bearing (Standard) (Standard)	1
2	161429	Kit-Crankshaft Bearing (0.010 in.) (0.010 in.)	1
2	161430	Kit-Crankshaft Bearing (0.020 in.) (0.020 in.)	1
2	161431	Kit-Crankshaft Bearing (0.030 in.) (0.030 in.)	1
3	b 161291	Washer (Standard)	2
3	161296	Washer (0.007 in.) (0.007 in.)	2
3	c 842799	Washer (Standard)	2
4	b 161292	Washer (Standard)	2
4	161297	Thrust Washer (0.007 in.) (0.007 in.)	2
4	c 842800	Washer (Standard)	2
5	161426	Kit-Piston Rod (Standard)	1
5	161432	Kit-Piston Rod (0.010 in.)	1
5	161433	Kit-Piston Rod (0.020 in.)	1
5	161434	Kit-Piston Rod (0.030 in.)	1
6	1458329	Thimble	2
6	161440	Kit-Piston Rod	4
7		Cap	1
8	99663	Nut	2
9	161648	Bolt	2
10	99668	Bearing	1
11	327919	Piston	4
12		Pin	1
13	992003	Snap Ring	2
14	327920	Ring (Standard)	4
15	99610	Key	1
16	168699	Gear	1
17	328044	Washer	1
18	d 368543	Pulley	1
18	e 386456	Pulley	1
19	b 99647	Washer	1
20	b 361340	Screw	1
21	377984	Pin	1
22	15155	Lockwasher	1
23	c 842833	Spacer	1
24	c 842834	Screw	3

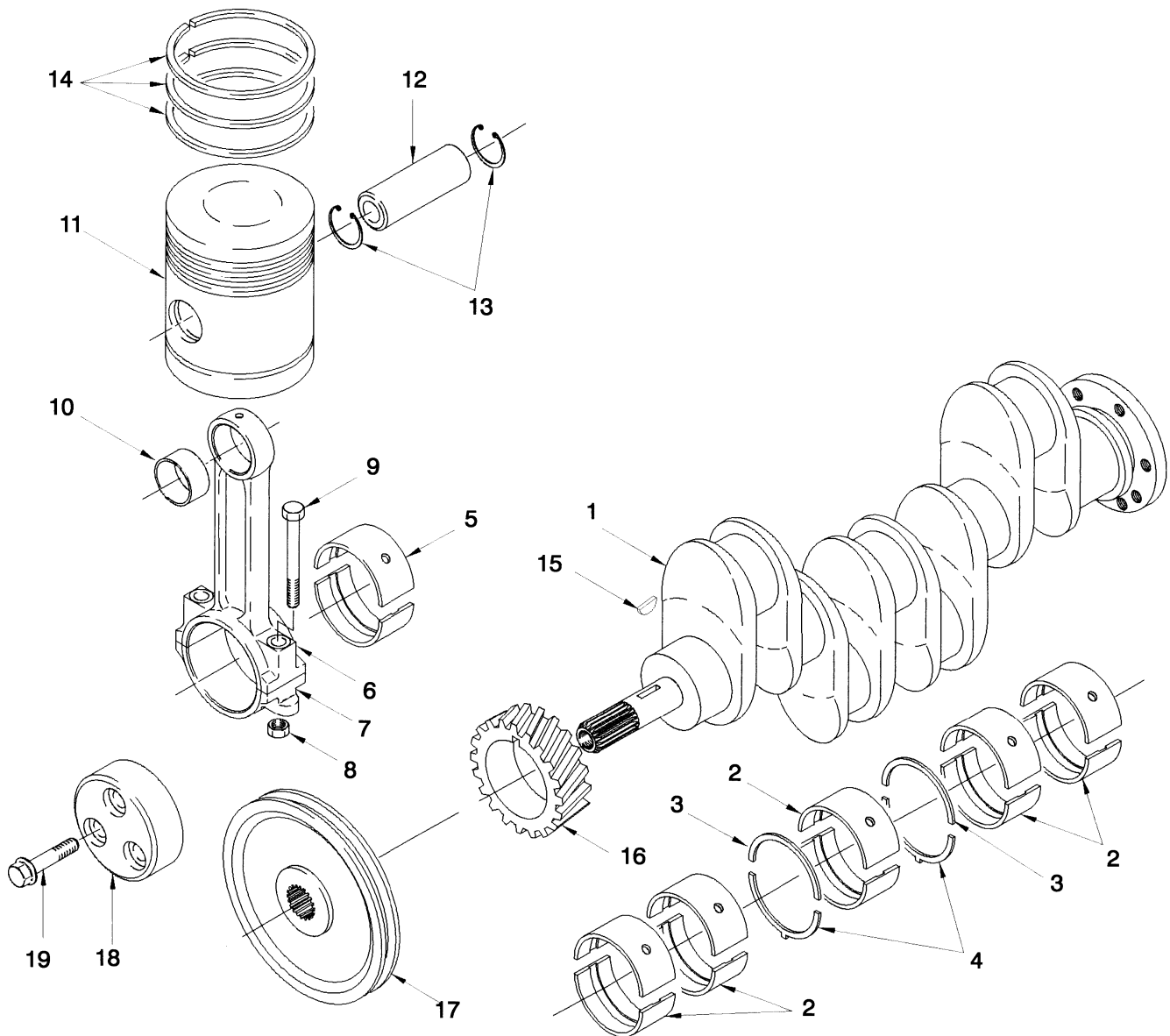
FOOTNOTES:

- a** Engine S/N 071168 through 071729 Identify
Crankshaft by Pulley Mounting
- b** Use with Crankshaft 340874
- c** Use with Crankshaft 385203

- d** → U978997I
- e** U978998I →

CRANKSHAFT AND PISTON (FIGURE 2-49)

DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)



HP090164

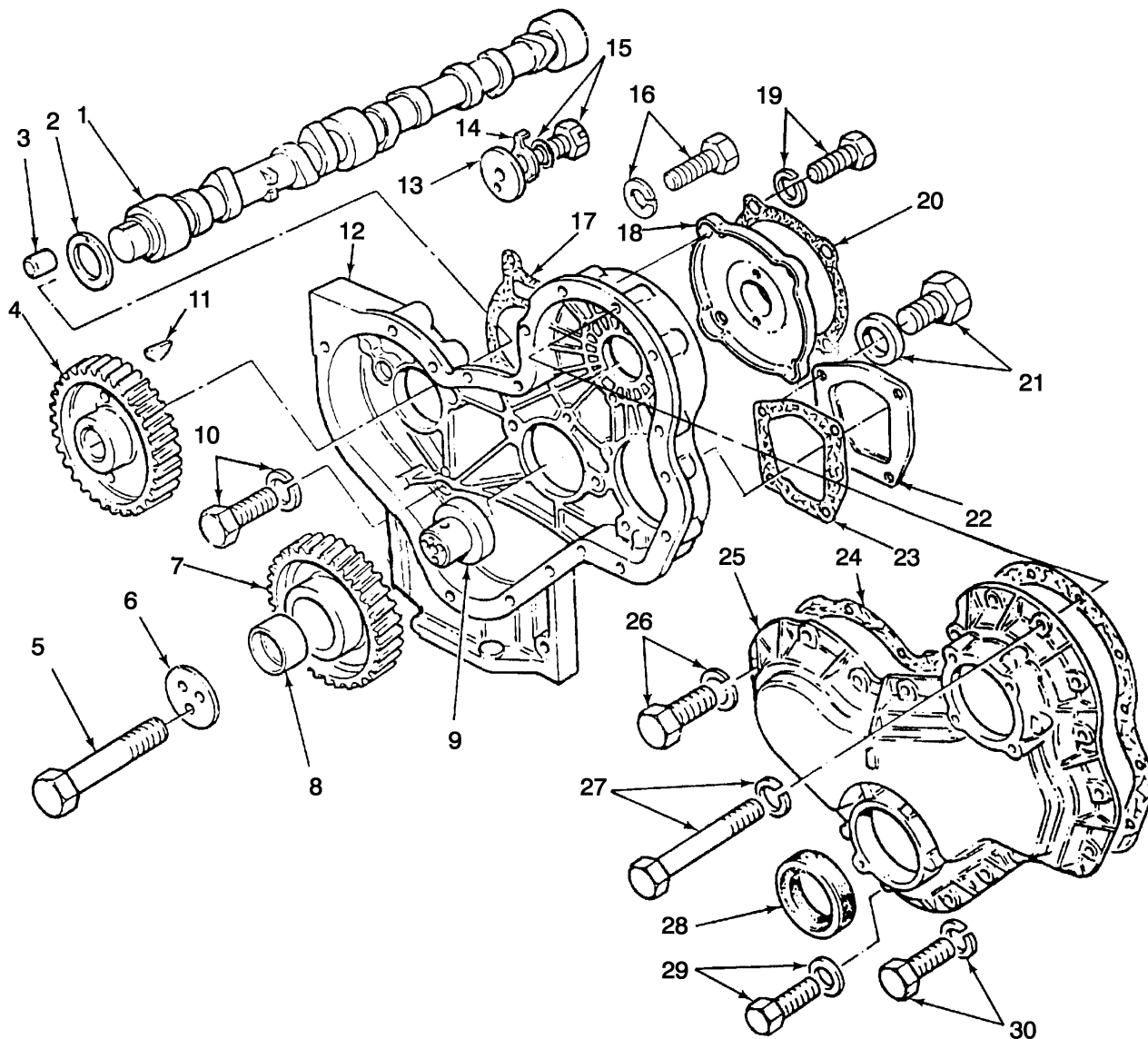
CRANKSHAFT AND PISTON**DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)**

ITEM	PART NO.	DESCRIPTION	QTY
	377323	Engine Assy-Diesel	1
1	340874	Crankshaft	1
2	a 161425	Kit-Crankshaft Bearing (Standard) (Standard)	1
2	161429	Kit-Crankshaft Bearing (0.010 in.) (0.010 in.)	1
2	161430	Kit-Crankshaft Bearing (0.020 in.) (0.020 in.)	1
2	161431	Kit-Crankshaft Bearing (0.030 in.) (0.030 in.)	1
3	161296	Washer (0.007 in.) (0.001 in.)	2
3	842799	Washer (Standard)	2
4	161297	Thrust Washer (0.007 in.) (0.001 in.)	2
4	842800	Washer (Standard)	2
5	161426	Kit-Piston Rod (Standard)	1
5	161432	Kit-Piston Rod (0.010 in.)	1
5	161433	Kit-Piston Rod (0.020 in.)	1
5	161434	Kit-Piston Rod (0.030 in.)	1
6	161440	Kit-Piston Rod	4
7		Cap	1
8	99663	Nut	2
9	161648	Bolt	2
10	99668	Bearing	1
11	b 1459456	Kit-Piston	4
12		Pin	1
13		Snap Ring	2
14	b 1459457	Kit-Piston Ring	4
15	99610	Key	1
16	1305706	Gear	1
17	1306193	Pulley	1
18	1306194	Block	1
19	302713	Screw	3

FOOTNOTES:**a** Crankshaft Includes Standard Bearings**b** → U797494c

TIMING GEAR (FIGURE 2-50)

DIESEL 4.248.2 (→ S/N F006A03039)



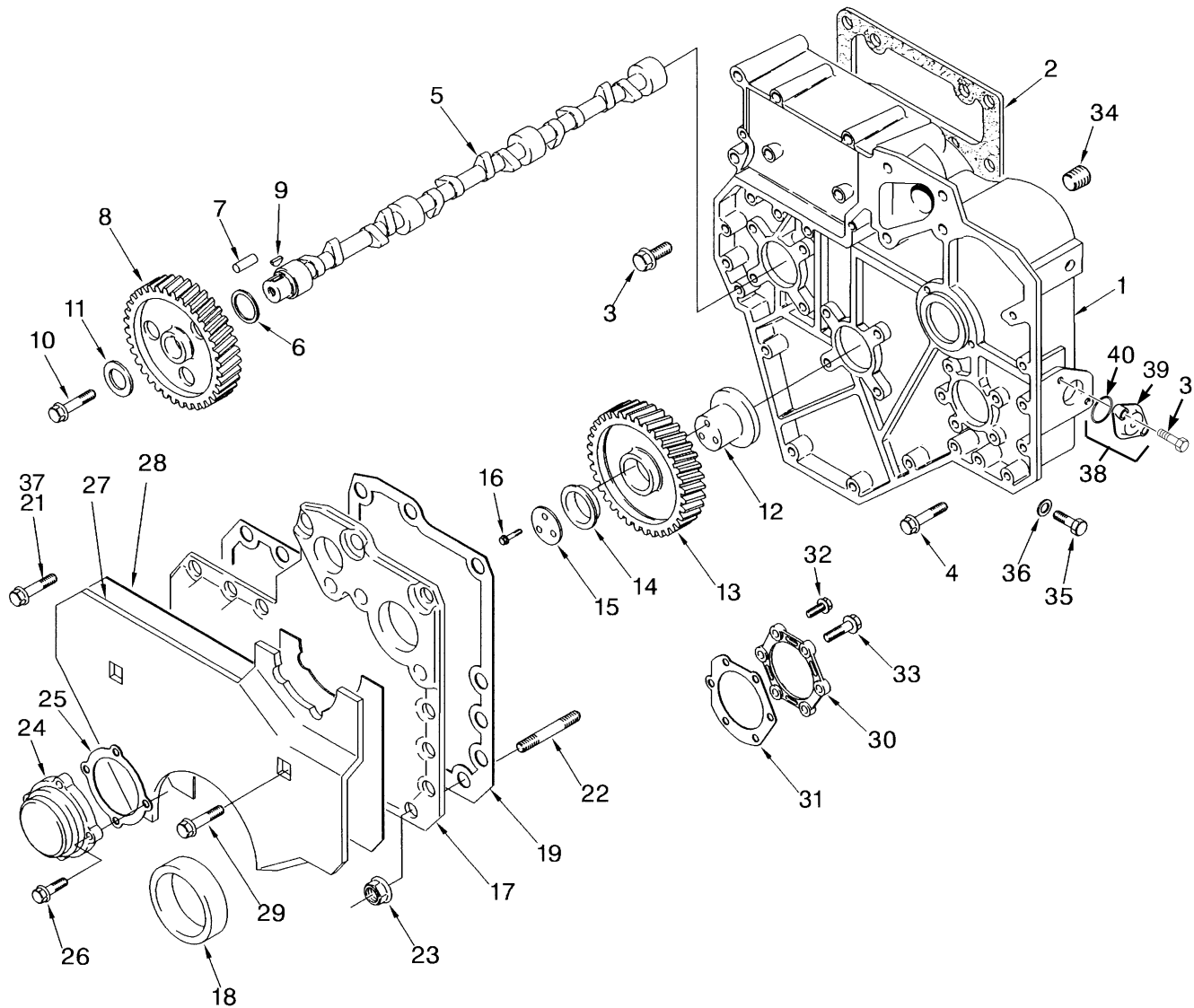
HP090165

TIMING GEAR
DIESEL 4.248.2 (→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
	387459	Engine Assy-Diesel	1
1	161463	Camshaft	1
2	99614	Washer	1
3	298096	Dowel	1
4	99609	Gear (Camshaft)	1
5	17154	Capscrew	3
6	982226	Plate	1
7	328003	Engine Assy	1
8	983484	Bushing	1
9	229875	Hub (Idler Gear)	1
10	15155	Lockwasher	9
10	16691	Capscrew	9
11	99610	Key	1
12	281970	Housing	1
13	99612	Plate	1
14	99613	Lockwasher	1
15	140598	Washer	1
15	99611	Setscrew	1
16	15155	Lockwasher	3
16	16818	Capscrew	3
17	161472	Gasket	1
18	358509	Cover	1
19	377999	Screw	4
19	15155	Lockwasher	4
20	1345774	Gasket	1
21	15155	Lockwasher	4
21	377999	Screw	4
22	1312421	Plate	1
23	1345776	Gasket	1
24	1344909	Gasket	1
25	372211	Cover	1
26	16634	Capscrew	1
26	15156	Lockwasher	1
27	18514	Capscrew	4
27	15155	Lockwasher	4
28	350399	Seal	1
29	16691	Capscrew	3
29	15155	Lockwasher	3
30	16691	Capscrew	12
30	15155	Lockwasher	12
	372727	Kit-Gasket	1

TIMING GEAR (FIGURE 2-51)

DIESEL 1004.4 (S/N F006D01501 →) (S/N F006A03040 ↔ S/N F006D04442)

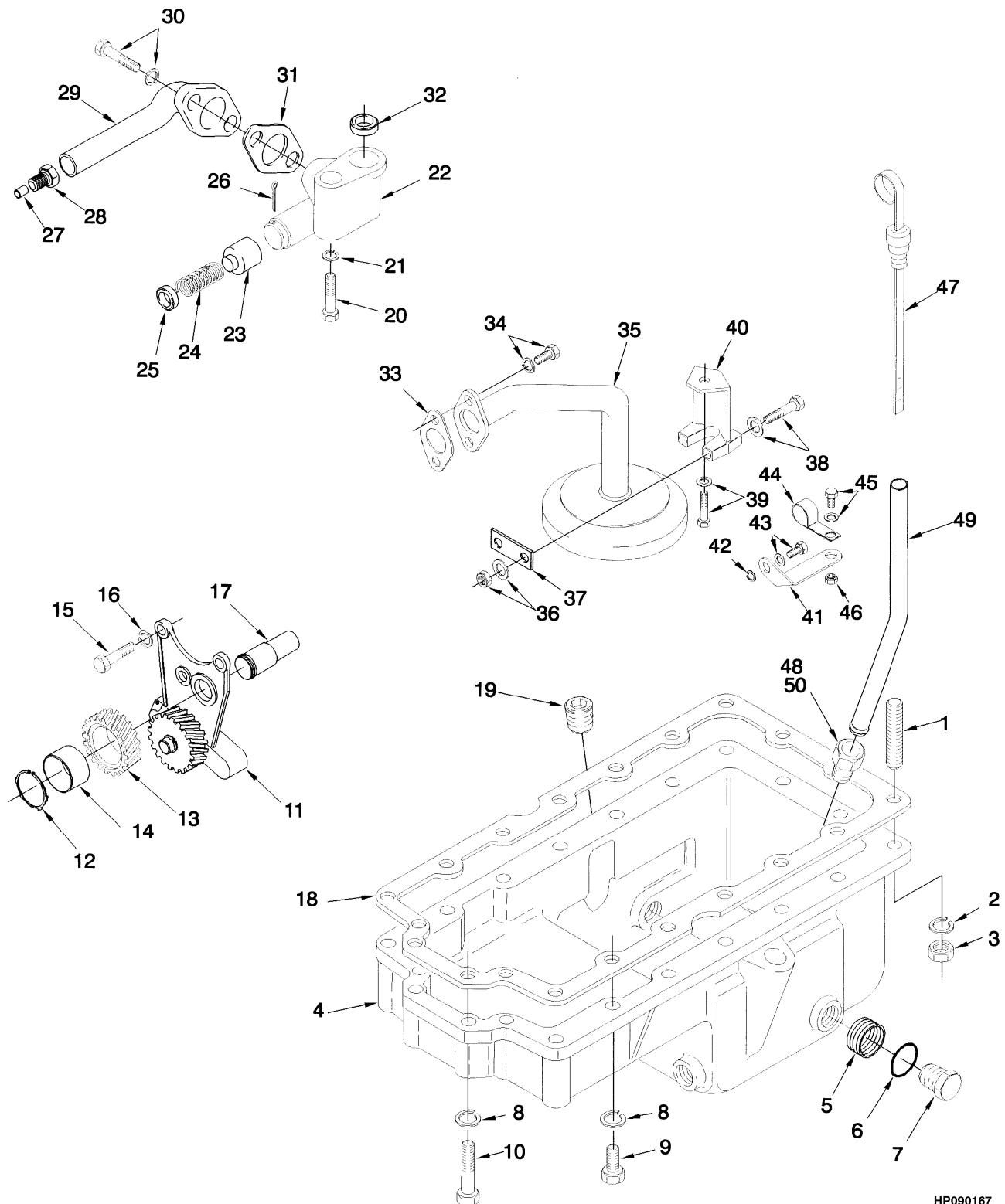


HP090100

TIMING GEAR**DIESEL 1004.4 (S/N F006D01501 →) (S/N F006A03040 ↔ S/N F006D04442)**

ITEM	PART NO.	DESCRIPTION	QTY
	377323	Engine Assy-Diesel	1
1	1460191	Timing Case	1
1	1371704	Plug	1
2	1536819	Gasket	1
3	386459	Screw	10
4	1306354	Screw	4
5	1458319	Camshaft	1
6	303758	Washer	1
7	298096	Dowel	1
8	1382479	Plate	1
9	99610	Key	1
10	1328565	Screw	1
11	1306364	Washer	1
12	229875	Hub (Idler Gear)	1
13	1306030	Gear	1
14	983484	Bushing	1
15	1382481	Gear	1
16	1306356	Screw	3
17	1306031	Engine Cover	1
18	350399	Seal	1
19	1357736	Gasket	1
20	1306357	Screw	6
21	1306358	Screw	1
22	1306033	Stud	2
23	1306359	Nut	2
24	1500233	Cover	1
24	1500234	O-Ring	1
25	1345790	Gasket	1
26	1306360	Screw	4
27	1306037	Damper	1
28	1371703	Shield	1
29	1306361	Screw	2
30	1539082	Plate	1
31	1329660	Gasket (PTO)	1
32	1306349	Screw	5
33	1306371	Screw	1
34	15962	Fitting	1
35	1306219	Screw	1
36	101985	Washer	1
37	1306362	Screw	6
38	1566799	Plate	1
39	1566800	Plate	1
40	1530767	O-Ring	1
	1371723	Kit-Gasket	1

OIL PAN (FIGURE 2-52) DIESEL 4.248.2 (→ S/N F006A03039)



HP090167

OIL PAN
DIESEL 4.248.2 (→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
	387459	Engine Assy-Diesel	1
1	377979	Stud	2
2	15155	Lockwasher	2
3	15005	Nut	2
4	272248	Oil Pan	1
5	266465	Insert	2
6	377977	O-Ring	2
7	377976	Plug	2
8	15155	Lockwasher	18
9	16691	Capscrew	12
10	161493	Capscrew	6
11	161500	Engine Oil Pump	1
12	328047	Snap Ring	1
13	167495	Gear	1
14	1306041	Bushing	1
15	16691	Capscrew	3
16	15155	Lockwasher	3
17	1380755	Shaft	1
18	1344913	Gasket	1
19	272249	Plug	1
20	16779	Capscrew	1
21	15156	Lockwasher	1
22	167497	Housing	1
23	167055	Plunger	1
24	167056	Spring	1
25	161509	Cap	1
26	992716	Cotter Pin	1
27	982302	Fitting	1
28	984336	Nut	1
29	161505	Pipe	1
30	15154	Lockwasher	2
30	18459	Capscrew	2
31	1344903	Gasket	1
32	1454315	Thimble	1
33	1344922	Gasket	1
34	15155	Lockwasher	2
34	16818	Capscrew	2
35	354396	Pipe	1
36	15127	Washer	2
36	221342	Locknut	2
37	361339	Clip	1
38	15127	Washer	2
38	18479	Capscrew	2
39	16825	Capscrew	1
39	354398	Spacer	1
40	354397	Bracket	1
41	373079	Bracket	1
42	15156	Lockwasher	1
43	18202	Capscrew	1
43	328049	Washer	1

OIL PAN
DIESEL 4.248.2 (→ S/N F006A03039)

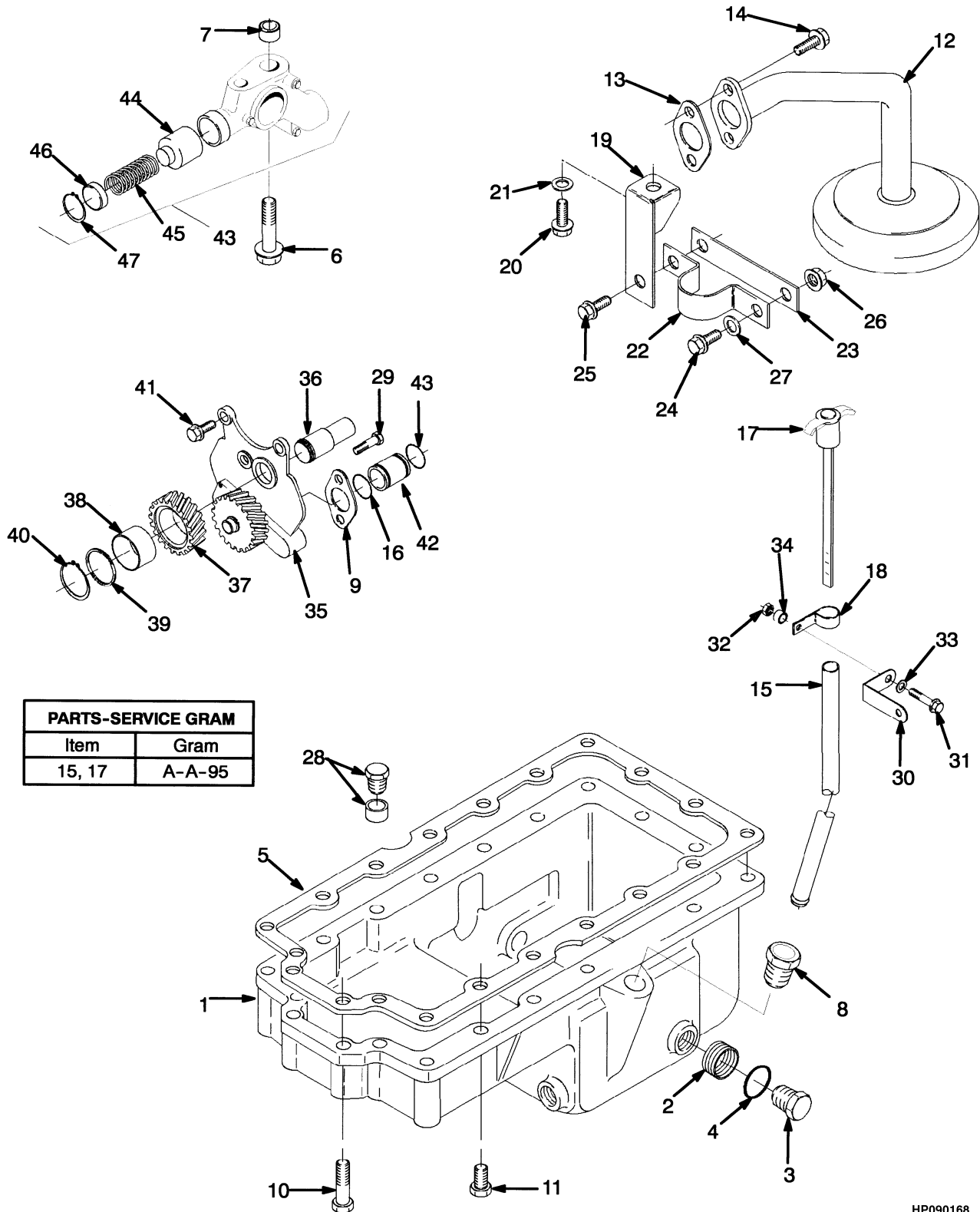
ITEM	PART NO.	DESCRIPTION	QTY
44	128259	Clamp	1
45	287817	Capscrew	1
46	136687	Nut	1
47	161495	Dipstick	1
48	125519	Washer	1
49	161494	Tube	1
50	222936	Fitting	1
	372727	Kit-Gasket	1

NOTES

[illegible]

OIL PAN (FIGURE 2-53)

DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)



HP090168

OIL PAN**DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)**

ITEM	PART NO.	DESCRIPTION	QTY
	377323	Engine Assy-Diesel	1
1	1306137	Oil Pan	1
2	266465	Insert	2
3	377976	Plug	2
4	1306374	O-Ring	2
5	1344913	Gasket	1
6	1306368	Screw	1
7	1454315	Thimble	1
8	1307880	Nut	1
9	1306043	Flange	1
10	a 1307878	Screw	6
10	c 1318965	Screw	6
11	386459	Screw	12
12	1306140	Pipe	1
13	1344921	Gasket	1
14	1307879	Screw	2
15	b 1306141	Tube	1
15	d 1385702	Tube Assy	1
16	1306363	O-Ring	2
17	b 1342594	Dipstick	1
17	d 1385701	Dipstick	1
18	1306142	Clip	1
19	1306146	Bracket	1
20	1307881	Screw	1
21	296418	Washer	1
22	1306147	Clip	1
23	1306148	Plate	1
24	1307882	Screw	1
25	1307883	Screw	1
26	1307884		
	1514429	Nut	2
27	1307885	Washer	1
28	1377908	Plug	1
29	1306358	Screw	2
30	1306176	Bracket	1
31	1307886	Screw	1
32	1307887	Nut	1
33	293780	Lockwasher	1
34	245781	Spacer	1
35	1306039	Engine Oil Pump	1
36	1380755	Shaft	1
37	1306040	Gear	1
38	1306041	Bushing	1
39	385847	Washer	1
40	328047	Snap Ring	1
41	1306362	Screw	3
42	1306042	Pipe	1
43	1315494	Relief Valve	1
44	301749	Plunger	1
45	1306047	Spring	1

OIL PAN**DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)**

ITEM	PART NO.	DESCRIPTION	QTY
46	301751	Cap	1
47	1306328	Snap Ring	1
	1371723	Kit-Gasket	1

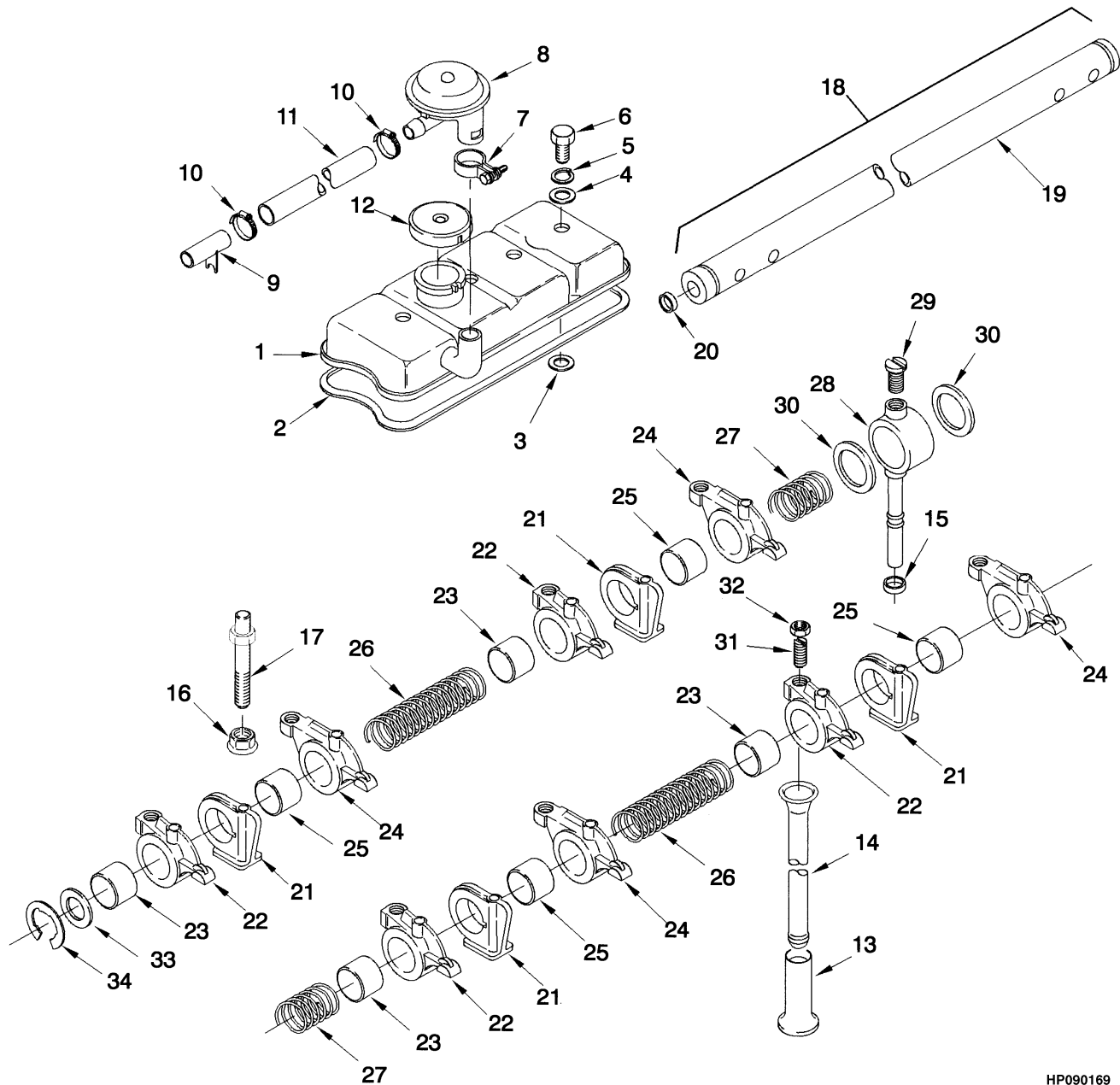
FOOTNOTES:**a** → U503404s**b** → U690784a**c** U503405s →**d** U690785a →

NOTES

[illegible]

VALVE COVER (FIGURE 2-54)

DIESEL 4.248.2 (→ S/N F006A03039) (→ S/N F006A01957)



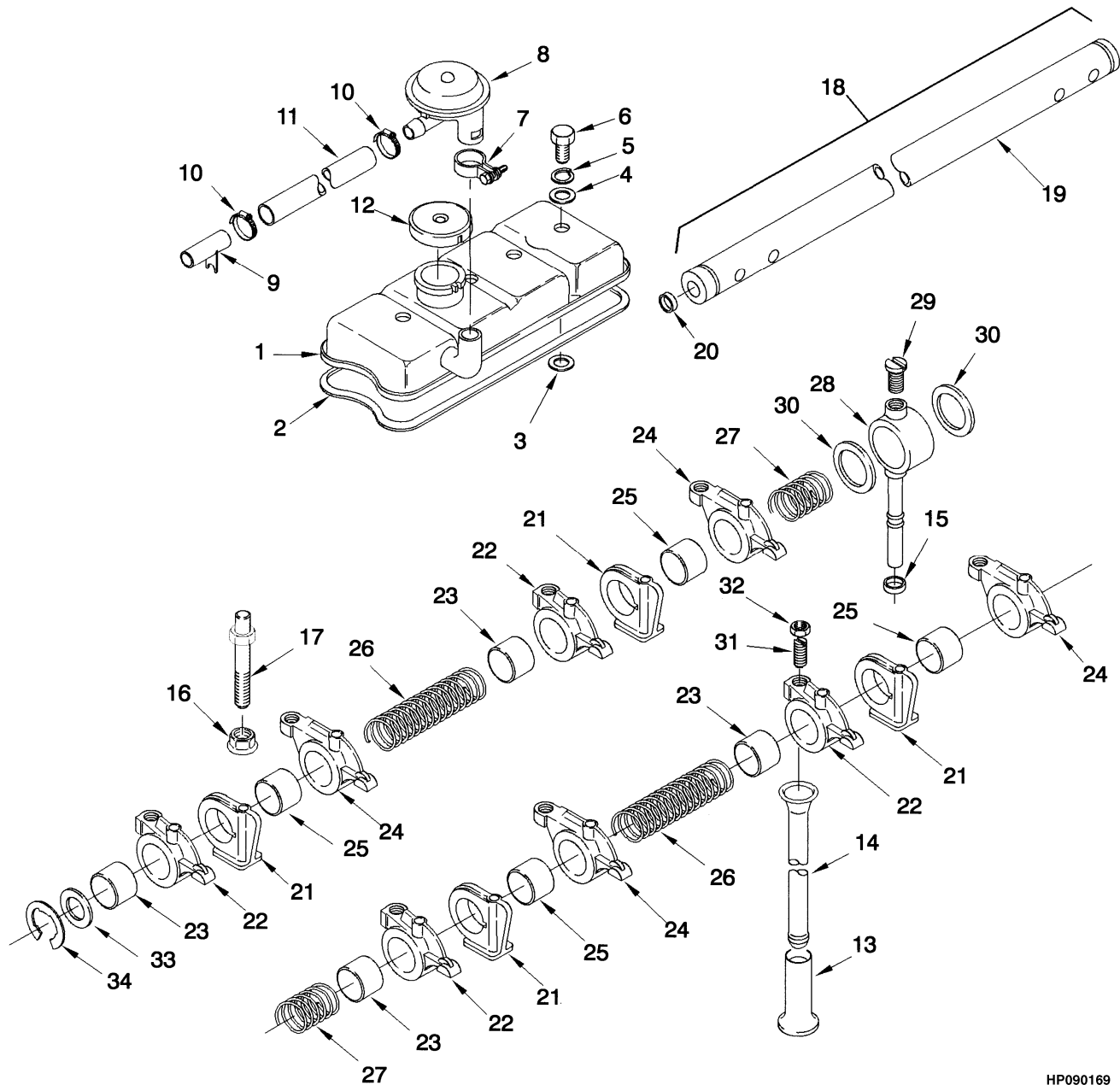
HP090169

VALVE COVER**DIESEL 4.248.2 (→ S/N F006A03039) (→ S/N F006A01957)**

ITEM	PART NO.	DESCRIPTION	QTY
	387459	Engine Assy-Diesel	1
1	377981	Cover	1
2	341880	Gasket	1
3	328050	Washer	4
4	328051	Washer	4
6	187742	Capscrew	4
7	302642	Clip	1
8	372098	Pcv Valve	1
9	373137	Sleeve	1
10	130845	Clamp	2
11	377983	Hose	1
12	982341	Cap	1
13	224248	Tappet	8
14	99728	Rod	8
15		Sleeve	4
16	1318914		
	216877	Nut	4
17	328046	Screw	4
18	1312878	Shaft	1
19	1305721	Rocker Shaft	1
20	990429	Plug	1
21	341876	Bracket	4
22	99720	Lever	4
23	161454	Bushing	1
24	1305724	Rocker Arm	4
25	161454	Bushing	1
26	99722	Spring (Long)	2
27	99723	Spring (Short)	2
28	360815	Connector	1
29	360816	Screw	1
30	367394	Shim (0.020 in.) (0.020 in.)	2
31	1466859	Screw	8
32	15026	Nut	8
33	377945	Washer	2
34	99725	Snap Ring	1
	349781	Gasket	1

VALVE COVER (FIGURE 2-55)

DIESEL 4.248.2 (→ S/N F006A03039) (S/N F006D01501 →) (S/N F006A01958 →)



HP090169

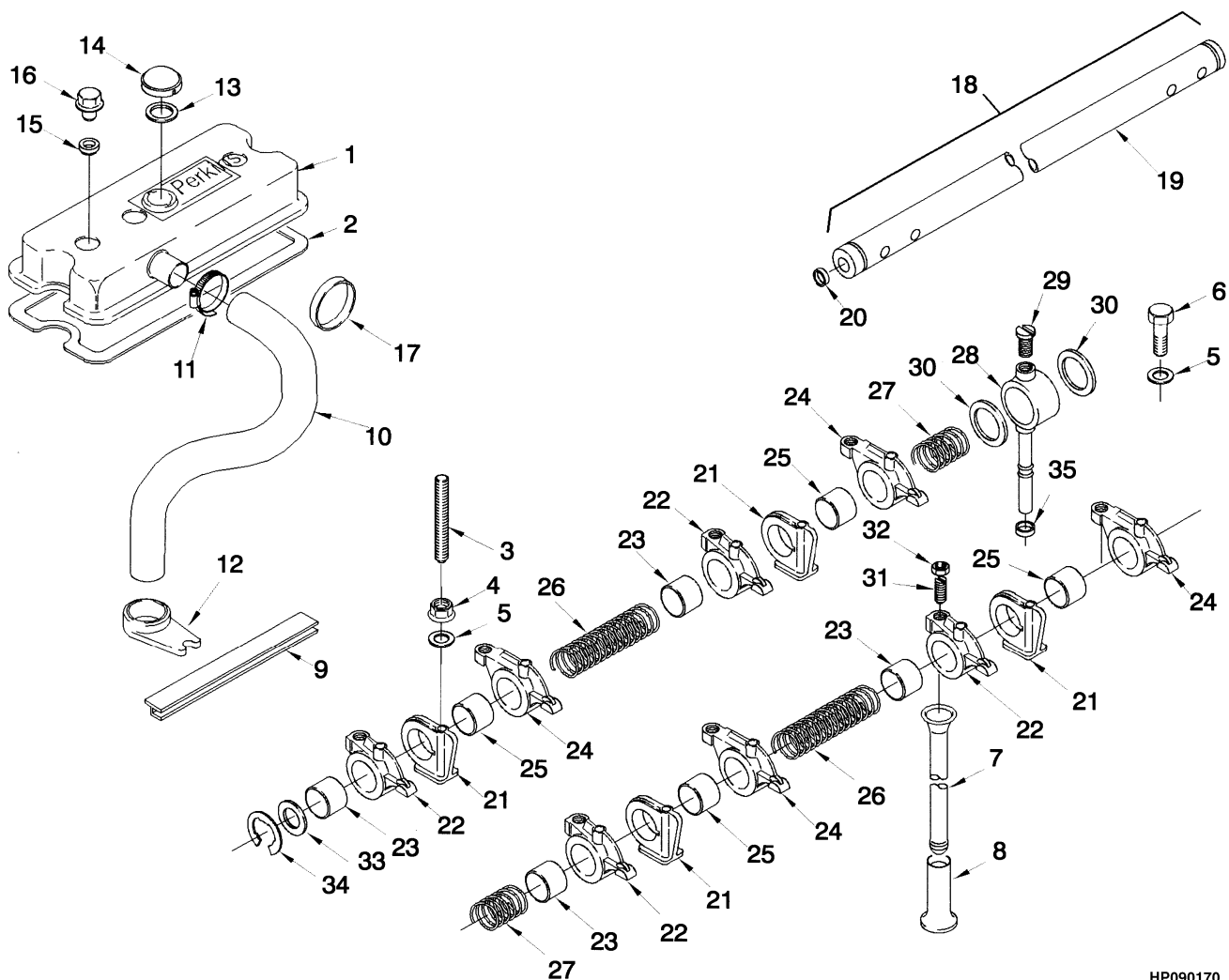
VALVE COVER**DIESEL 4.248.2 (→ S/N F006A03039) (S/N F006D01501 →) (S/N F006A01958 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	387459	Engine Assy-Diesel	1
1	1312886	Cover	1
2	341880	Gasket	1
3	328050	Washer	4
4	328051	Washer	4
5	15154	Lockwasher	4
6	187742	Capscrew	4
7	302642	Clip	1
8	372098	Pcv Valve	1
9	373137	Sleeve	1
10	130845	Clamp	2
11	377983	Hose	1
12	982341	Cap	1
13	224248	Tappet	8
14	99728	Rod	8
15		Sleeve	4
16	1318914		
	216877	Nut	4
17	328046	Screw	4
18	1312878	Shaft	1
19	1305721	Rocker Shaft	1
20	990429	Plug	1
21	341876	Bracket	4
22	99720	Lever	4
23	161454	Bushing	1
24	1305724	Rocker Arm	4
25	161454	Bushing	1
26	99722	Spring (Long)	2
27	99723	Spring (Short)	2
28	360815	Connector	1
29	360816	Screw	1
30	367394	Shim (0.020 in.) (0.020 in.)	2
31	1466859	Screw	8
32	15026	Nut	8
33	377945	Washer	2
34	99725	Snap Ring	1
	349781	Gasket	1

VALVE COVER (FIGURE 2-56)

DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)

PARTS SERVICE GRAM	
ITEM	GRAM
1,2,13,14	A-A-97



HP090170

VALVE COVER**DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)**

ITEM	PART NO.	DESCRIPTION	QTY
	377323	Engine Assy-Diesel	1
1	1315495	Cover	1
1	1390148	Cover	1
2	1306179	Gasket	1
2	1390147	Gasket	1
3	1306351	Stud	3
4	1318914		
	216877	Nut	4
5	1306352	Washer	3
6	1306353	Screw	1
7	99728	Rod	8
8	224248	Tappet	8
9	1306183	Seal	1
10	1315496	Pipe	1
11	130845	Clamp	1
12	301785	Bracket	1
13	1306181	Seal	1
13	1371712	Seal	1
14	1306180	Cap	1
14	1391246	Cap	1
14	1516930	O-Ring	1
15	15125	Washer	3
16	1371711	Shim	3
16	1380245	Seal	3
16	301775	Bushing	3
17	99582	Plug	1
18	1305720	Shaft	1
19	842802	Rocker Shaft	1
20	990429	Plug	1
21	1370947	Bracket	4
22	1458331	Rocker Arm (RH)	4
23	161454	Bushing	1
24	1458332	Rocker Arm (LH)	4
25	161454	Bushing	1
26	99722	Spring (Long)	2
27	99723	Spring (Short)	2
28	1374980	Fitting	1
29	1370948	Screw	1
30	367394	Shim (0.020 in.) (0.020 in.)	2
31	1466859	Screw	8
32	15026	Nut	8
33	377945	Washer	2
34	99725	Snap Ring	1
35	158187	Olive	1
	a 1523917	Kit-Gasket	1
	b 1528139	Kit-Gasket	1

FOOTNOTES:

a → U600869w

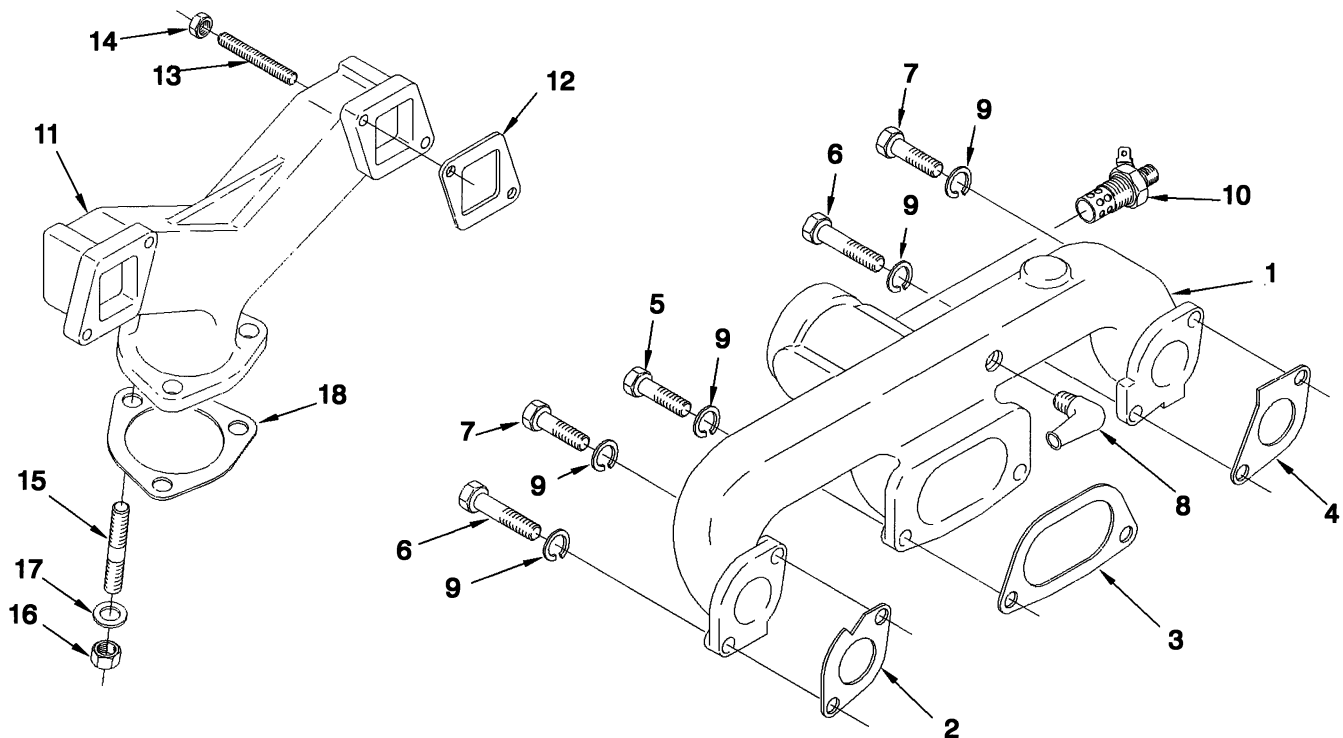
b U600870w →

NOTES

[illegible]

MANIFOLD (FIGURE 2-57)

DIESEL 4.248.2 (→ S/N F006A03039)

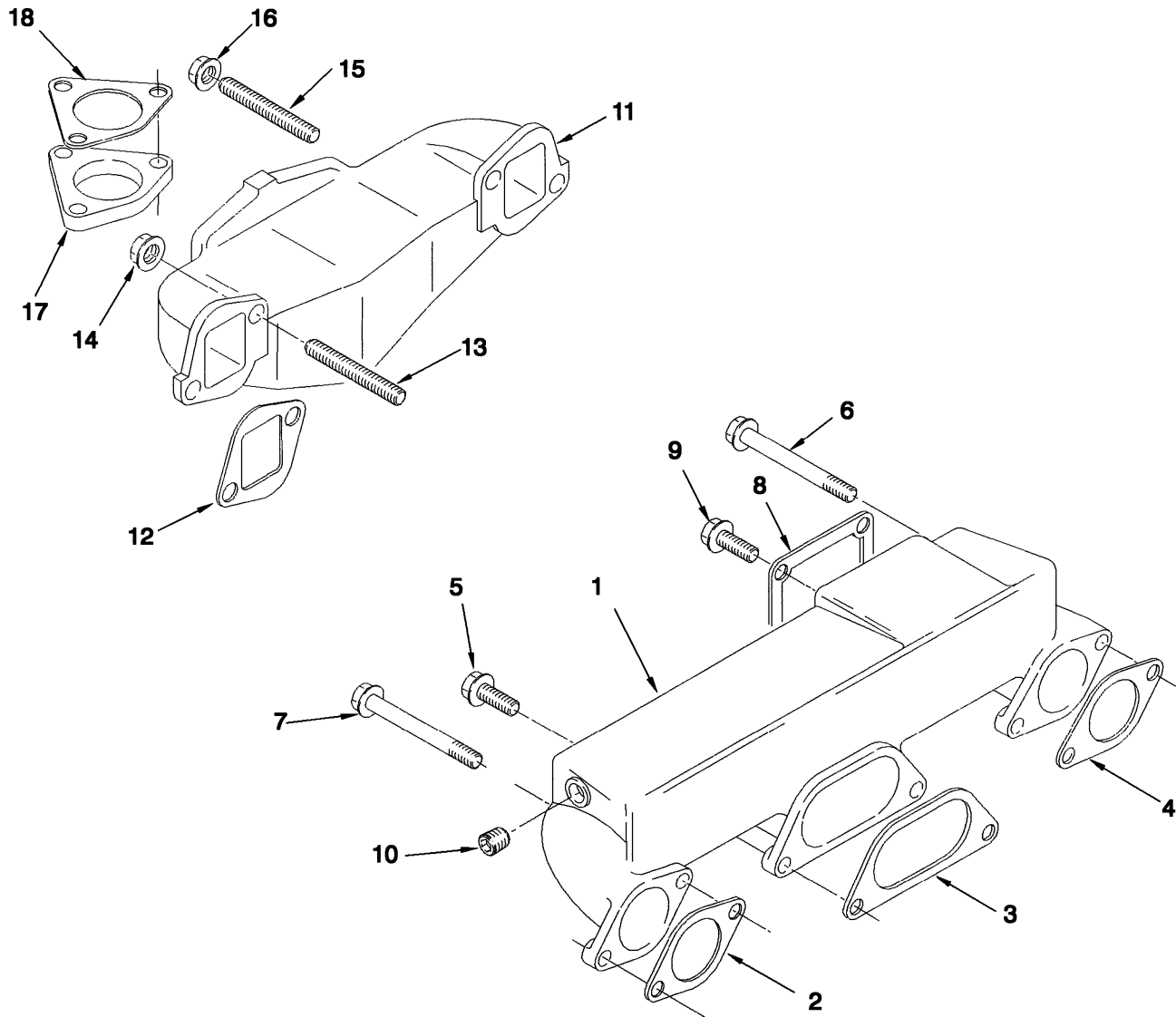


HP090171

MANIFOLD
DIESEL 4.248.2 (→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
	387459	Engine Assy-Diesel	1
1	377990	Manifold	1
2	1345775	Gasket	1
3	1345767	Gasket	1
4	1345766	Gasket	1
5	302723	Bolt	2
6	17231	Capscrew	2
7	18202	Capscrew	2
8	377991	Elbow	1
9	15156	Lockwasher	6
10	986104	Glow Plug	1
11	161418	Exhaust Manifold	1
12	161419	Gasket	2
13	161420	Stud	4
14	257077	Nut	4
15	985588	Stud	3
16	15006	Nut	3
17	992631	Washer	3
18	1329525	Gasket	1
	349781	Gasket	1

MANIFOLD (FIGURE 2-58)
DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)



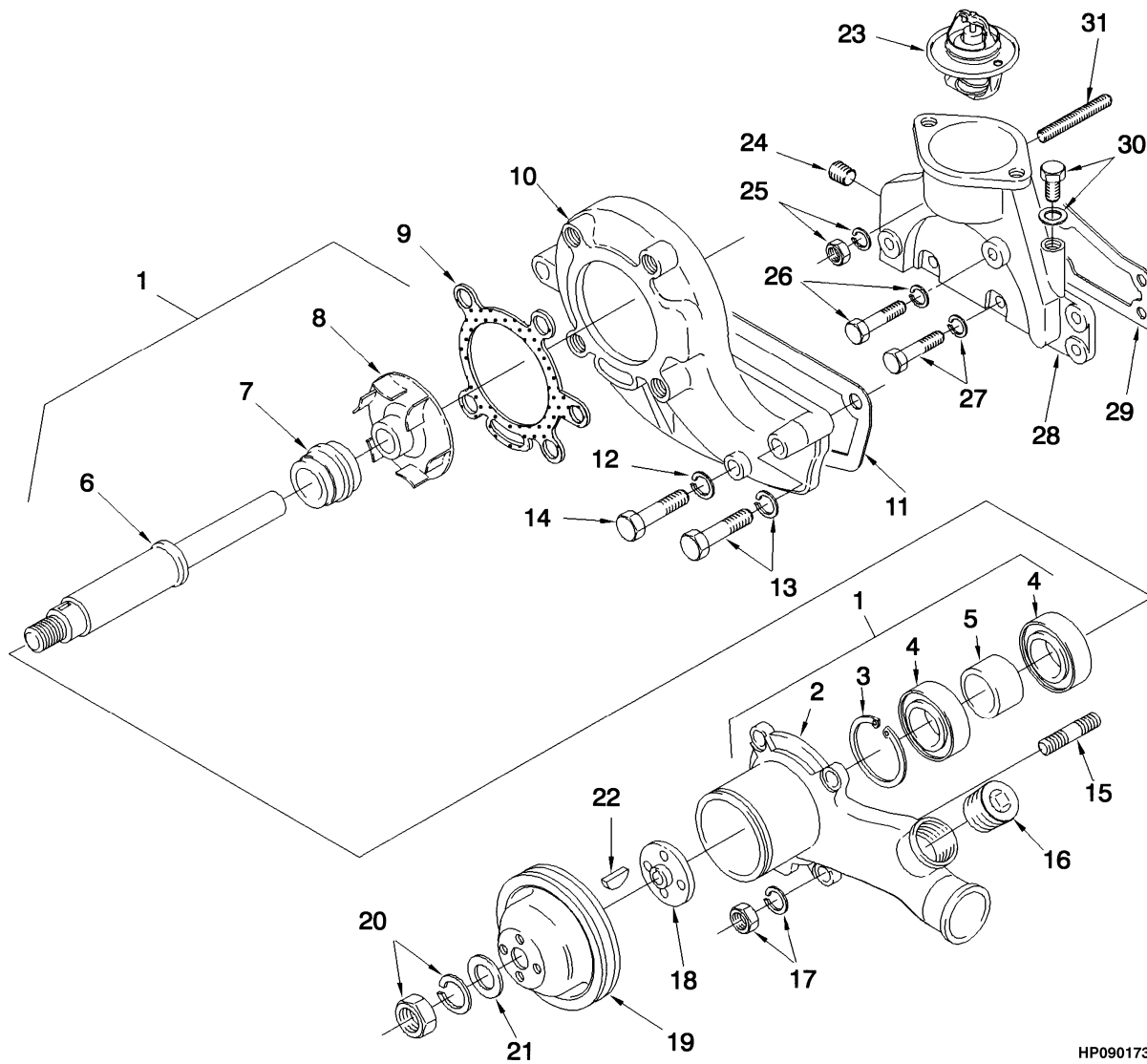
HP090172

MANIFOLD**DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)**

ITEM	PART NO.	DESCRIPTION	QTY
	377323	Engine Assy-Diesel	1
1	1306222	Manifold	1
2	361312	Gasket	1
3	361313	Gasket	1
4	361314	Gasket	1
5	1307915	Capscrew	4
6	1307916	Screw	1
7	1307917	Screw	1
8	1345794	Gasket	1
9	1306358	Screw	4
10	982155	Plug	1
11	1306223	Exhaust Manifold	1
12	1371733	Gasket	2
13	1459730	Stud	4
14	1306370	Nut	3
15	1307877	Stud	3
16	1306370	Nut	3
17	1306224	Flange	1
18	1355319	Gasket	1
	a 1523917	Kit-Gasket	1
	b 1528139	Kit-Gasket	1

FOOTNOTES:**a** → U600869w**b** U600870w →

COOLANT PUMP (FIGURE 2-59) DIESEL 4.248.2 (→ S/N F006A03039)



HP090173

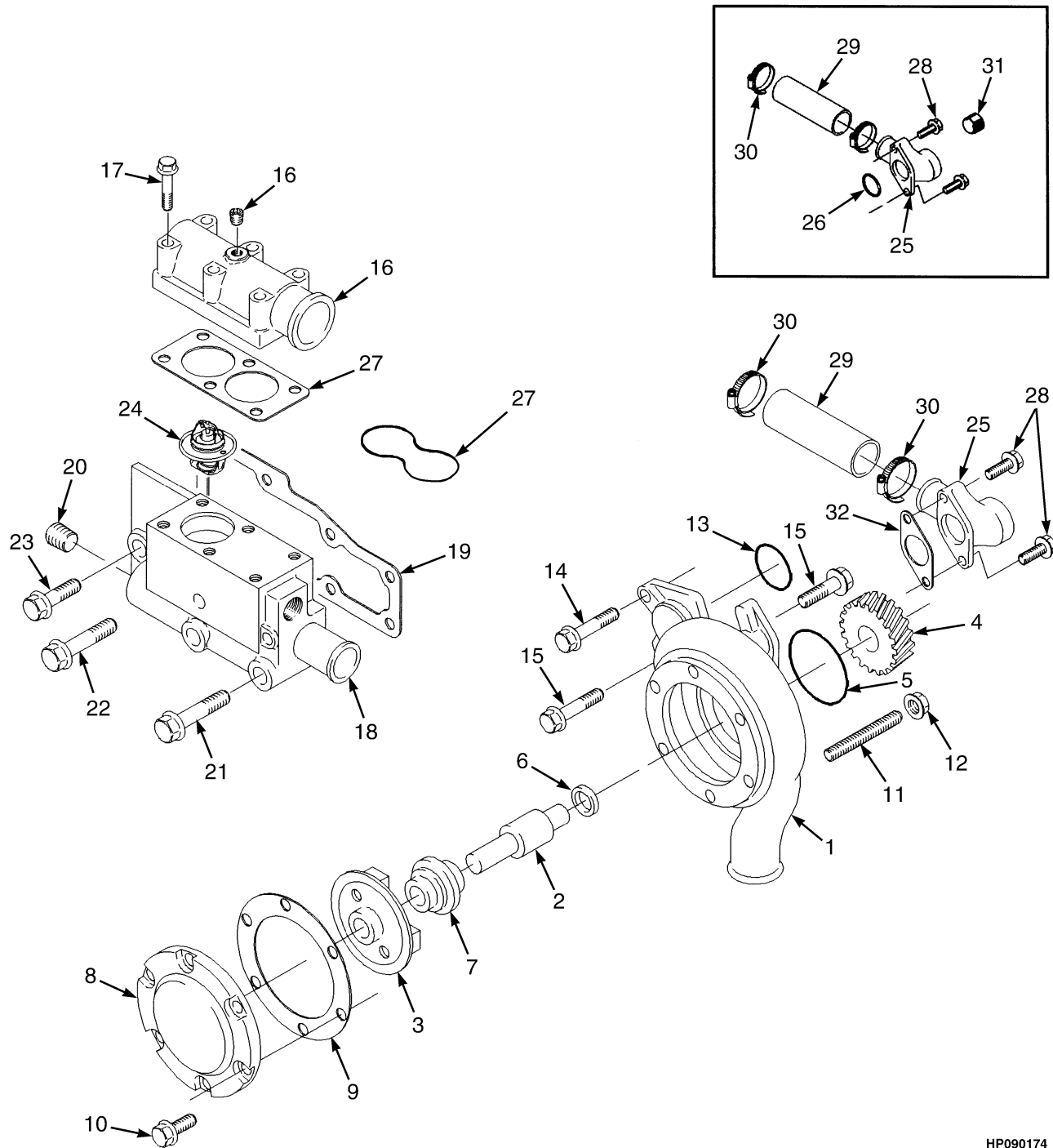
COOLANT PUMP
DIESEL 4.248.2 (→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
	387459	Engine Assy-Diesel	1
1	a 377989	Water Pump	1
2		Body	1
3	328053	Snap Ring	1
4		Bearing	2
5		Spacer	1
6		Shaft	1
7	1307904	Seal	1
8		Impeller	1
9	1345777	Gasket	1
10	361292	Body	1
11	1345781	Gasket	1
12	15156	Lockwasher	2
13	15156	Lockwasher	2
13	16594	Capscrew	2
14	17154	Capscrew	2
15	377980	Stud	4
16	15962	Fitting	1
17	15005	Nut	4
17	15155	Lockwasher	4
18	341882	Hub	1
19	341881	Pulley	1
20	15010	Nut	1
20	15160	Washer	1
21	15125	Washer	1
22	9033	Woodruff Key	1
23	151570	Thermostat (170°F)	1
24	15962	Fitting	1
25	15006	Nut	1
25	15156	Lockwasher	1
26	18512	Capscrew	1
26	15156	Lockwasher	1
27	15155	Lockwasher	2
27	16691	Capscrew	2
28	377987	Housing	1
29	1345756	Gasket	1
30	992025	Plug	1
30	986475	Washer	1
31	377988	Stud	1
	262284	Kit-Repair Water Pump	1
	349781	Gasket	1

FOOTNOTES:**a** Remanufactured Water Pump 3002531 R

COOLANT PUMP (FIGURE 2-60)

DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)



HP090174

COOLANT PUMP**DIESEL 1004.4 (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)**

ITEM	PART NO.	DESCRIPTION	QTY
	377323	Engine Assy-Diesel	1
1	d 1323449	Water Pump	1
1	e 1458267	Water Pump	1
1	d	Body	1
2	d	Shaft	1
3	d	Impeller	1
4	1306200	Gear	1
5	1307902	Seal	1
6	1307903	Seal	1
7	1388376	Seal	1
8	d 1306201	Cover	1
9	1345785	Gasket	1
10	1307900	Screw	6
11	1307901	Stud	3
12	1306359	Nut	3
13	1466858	O-Ring	1
14	1307895	Screw	1
15	1306373	Screw	2
16	1450388	Fitting	1
16	1311523	Plug	1
16	1450389	O-Ring	1
17	1307909	Screw	4
18	1306203	Housing	1
19	1345798	Gasket	1
20	15962	Fitting	2
21	1307897	Screw	2
22	1307895	Screw	1
23	1307898	Screw	2
24	301793	Thermostat (180° F)	1
25	1454317	Fitting	1
26	1454318	O-Ring	1
27	a 1345792	Gasket	1
27	c 1450389	O-Ring	1
28	1306358	Screw	2
29	1309831	Kit-Hose	1
30	119236	Clamp	2
31	1525768	Connector	1
32	1345791	Gasket	1
	1306197	Kit-Repair Water Pump	1
	1458268	Kit-Repair Water Pump	1
	1371723	Kit-Gasket	1
	b 1523917	Kit-Gasket With Alumium Cover	1
	f 1528139	Kit-Gasket with Composite Cover	1

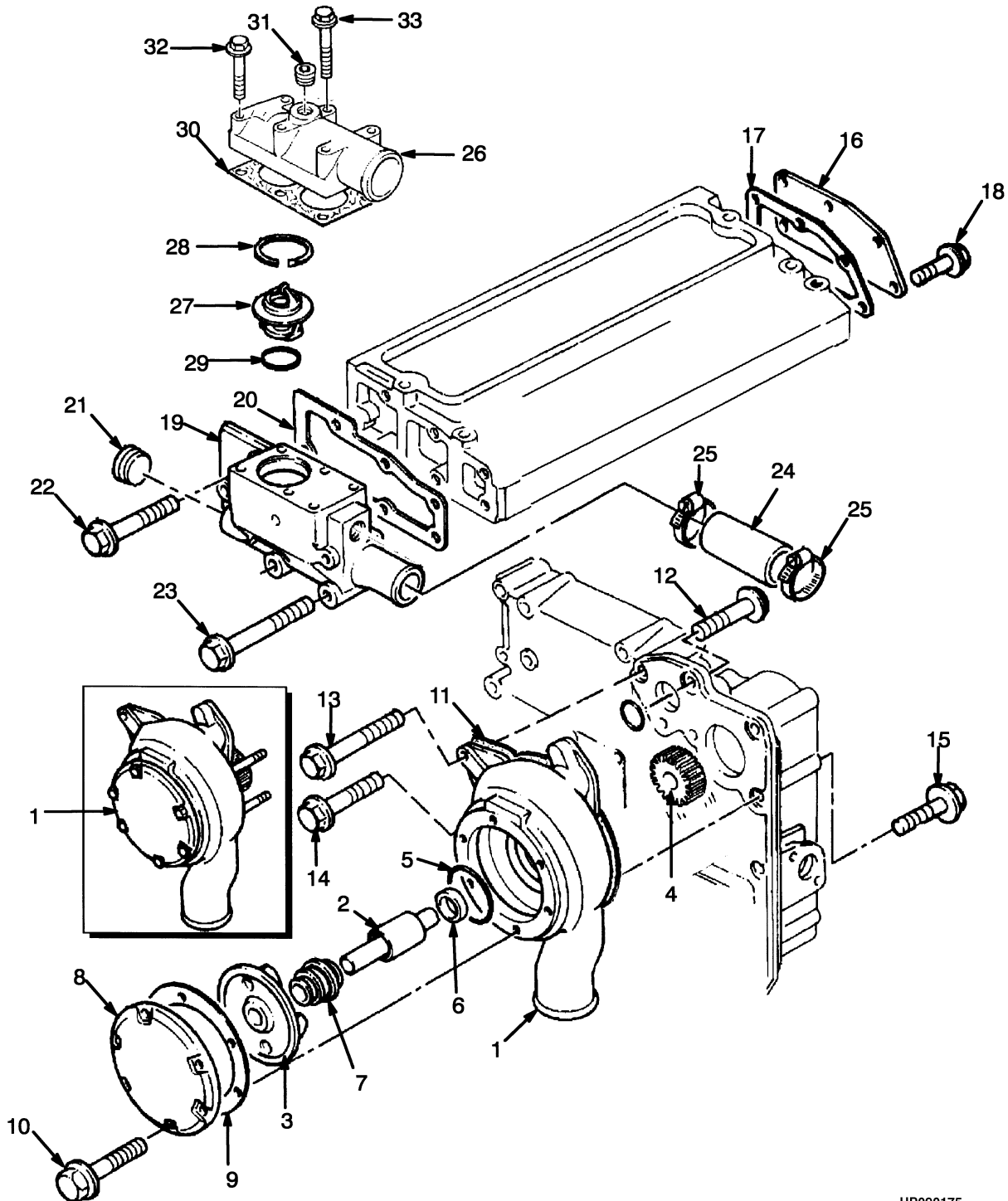
FOOTNOTES:

a → S/N U600869w
b → U600869w
c S/N U600870w →

d U594369 →
e U594370 →
f U600870w →

COOLANT PUMP (FIGURE 2-61)

DIESEL — WITH LOW EMISSIONS (→ S/N F006D04443) (→ U892125D)



HP090175

COOLANT PUMP

DIESEL – WITH LOW EMISSIONS (→ S/N F006D04443) (→ U892125D)

ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel	1
1		Body	1
1	a 1460454	Water Pump	1
1	c 1465895	Water Pump	1
2		Shaft	1
3		Impeller	1
4		Gear	1
5		Seal	1
6		Seal	1
7		Seal	1
8		Cover	1
9		Gasket	1
10		Screw	6
11	1451733	Gasket	1
12	1307908	Screw	4
13	1315497	Screw	1
14	1307894	Screw	3
15	1307909	Screw	2
16	1456742	Plate	1
17	1451739	Gasket	1
18	1307881	Screw	3
19	b 1465171	Thermostat Housing (Service with Housing 1491202)	1
19	d 1491202	Thermostat Housing	1
20	1451735	Gasket	1
21	15962	Fitting	1
22	1318968	Screw	3
23	1307898	Screw	3
24	1456746	Kit-Hose	1
25	1456747	Clip	2
26	1451741	Fitting	1
27	1456745	Thermostat	1
28	1451738	Ring	1
29	1451737	O-Ring	1
30	1451742	Gasket	1
31	1465811	Plug	1
32	1318921	Screw	2
33	386459	Screw	2
	1456508	Kit-Gasket (Top)	1
	1539325	Kit-Gasket (Bottom)	1
	1465896	Kit-Repair Water Pump (Water Pump)	1

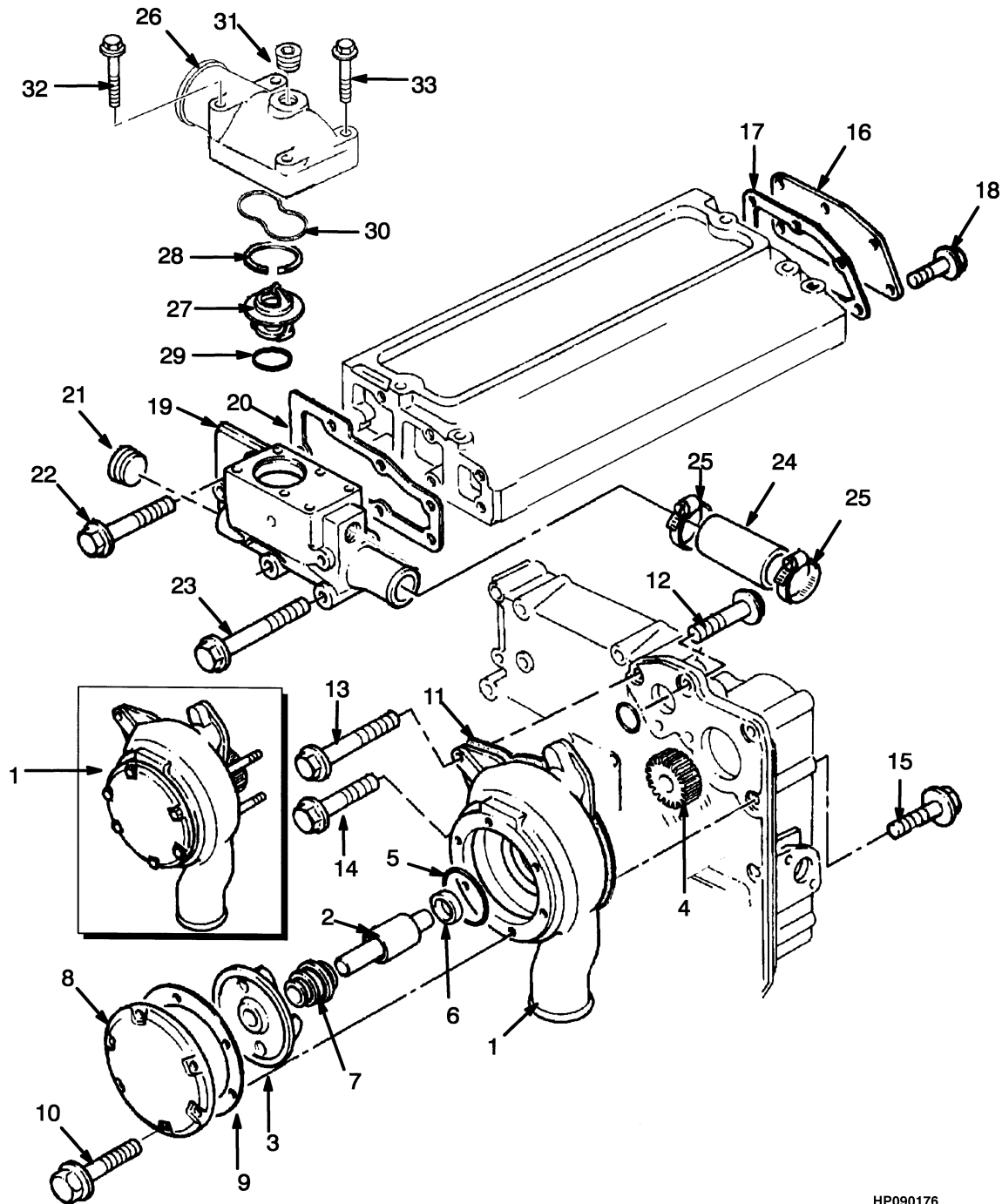
FOOTNOTES:

a → 6/1999
b → U013619D

c 6/1999 →
d U013620D →

COOLANT PUMP (FIGURE 2-62)

DIESEL — WITH LOW EMISSIONS (S/N F006D04443 →) (U892126D →)



HP090176

COOLANT PUMP

DIESEL – WITH LOW EMISSIONS (S/N F006D04443 →) (U892126D →)

ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel	1
1	1545442	Water Pump	1
1		Body	1
2		Shaft	1
3		Impeller	1
4		Gear	1
5		Seal	1
6		Seal	1
7		Seal	1
8		Cover	1
9		Gasket	1
10		Screw	6
11	1451733	Gasket	1
12	1307908	Screw	4
13	1315497	Screw	1
14	1307894	Screw	3
15	1307909	Screw	2
16	1456742	Plate	1
17	1451739	Gasket	1
18	1307881	Screw	3
19	a 1465171	Thermostat Housing (Service with Housing 1491202)	1
19	b 1491202	Thermostat Housing	1
19	c 1550596	Thermostat Housing	1
20	1451735	Gasket	1
21	15962	Fitting	1
22	1318968	Screw	3
23	1307898	Screw	3
24	1456746	Kit-Hose	1
25	1456747	Clip	2
26	1465803	Thermostat Housing	1
27	1456745	Thermostat	1
28	1465812	Ring	1
29	1451737	O-Ring	1
30	1465810	O-Ring	1
31	1465811	Plug	1
32	1318921	Screw	2
33	386459	Screw	2
	1456508	Kit-Gasket (Top)	1
	1539325	Kit-Gasket (Bottom)	1
	1537291	Kit-Repair Water Pump	1

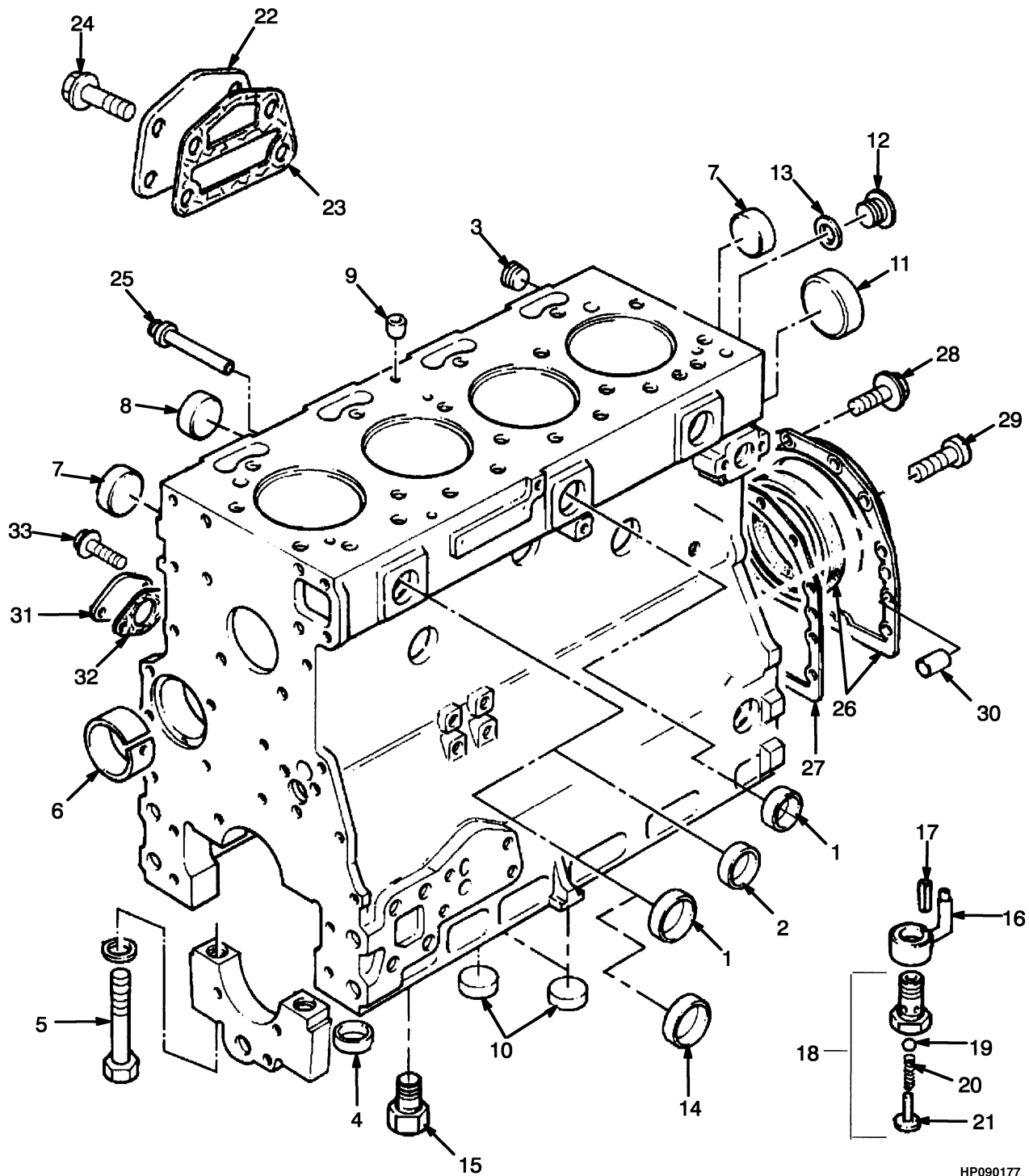
FOOTNOTES:

a → U013619D
b U013620D ↔ 6/2003

c 6/2003 →

CYLINDER BLOCK (FIGURE 2-63)

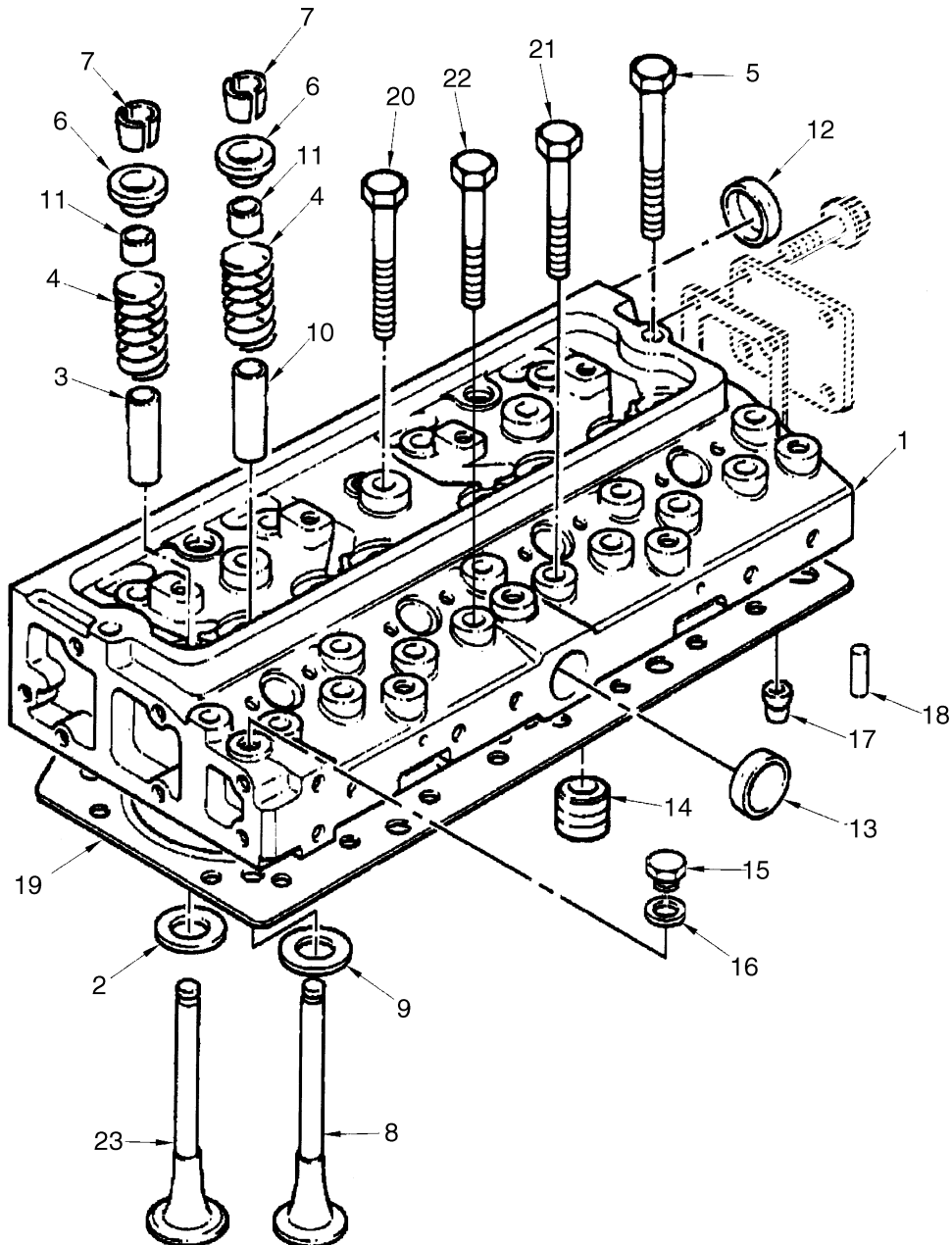
DIESEL — WITH LOW EMISSIONS (S/N F006D04443 →)



CYLINDER BLOCK
DIESEL – WITH LOW EMISSIONS (S/N F006D04443 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel	1
	1516741	Short Block	1
1	980727	Plug	6
2	349377	Plug	1
3	15304	Fitting	2
4	99576	Thimble	10
5	16794	Capscrew	10
6	1451625	Bushing	1
7	385531	Plug	6
8	161383	Plug	3
9	992393	Plug	1
10	245800	Plug	2
11	1388387	Plug	1
12	161385	Plug	1
13	984632	Washer	1
14	1456694	Plug	1
15	1456698	Plug	3
16	1456697	Jet	1
17	1456696	Dowel	1
18	1311054	Valve	1
19	1311055	Ball	1
20	1311056	Spring	1
21	1311057	Retainer	1
22	1374982	Plate	1
23	1345800	Gasket	1
24	1307893	Screw	4
25	365854	Plug	1
26	1369077	Housing	1
26	350397	Seal (Rear)	1
27	1379734	Gasket	1
28	386459	Screw	12
29	1382061	Screw	2
30	158139	Dowel	2
31	1305698	Plate	1
32	1345784	Gasket	1
33	1306349	Screw	2
	1546462	Kit-Cylinder Block	1
	1539325	Kit-Gasket (Bottom)	1

CYLINDER HEAD (FIGURE 2-64)
DIESEL — WITH LOW EMISSIONS (S/N F006D04443 →)

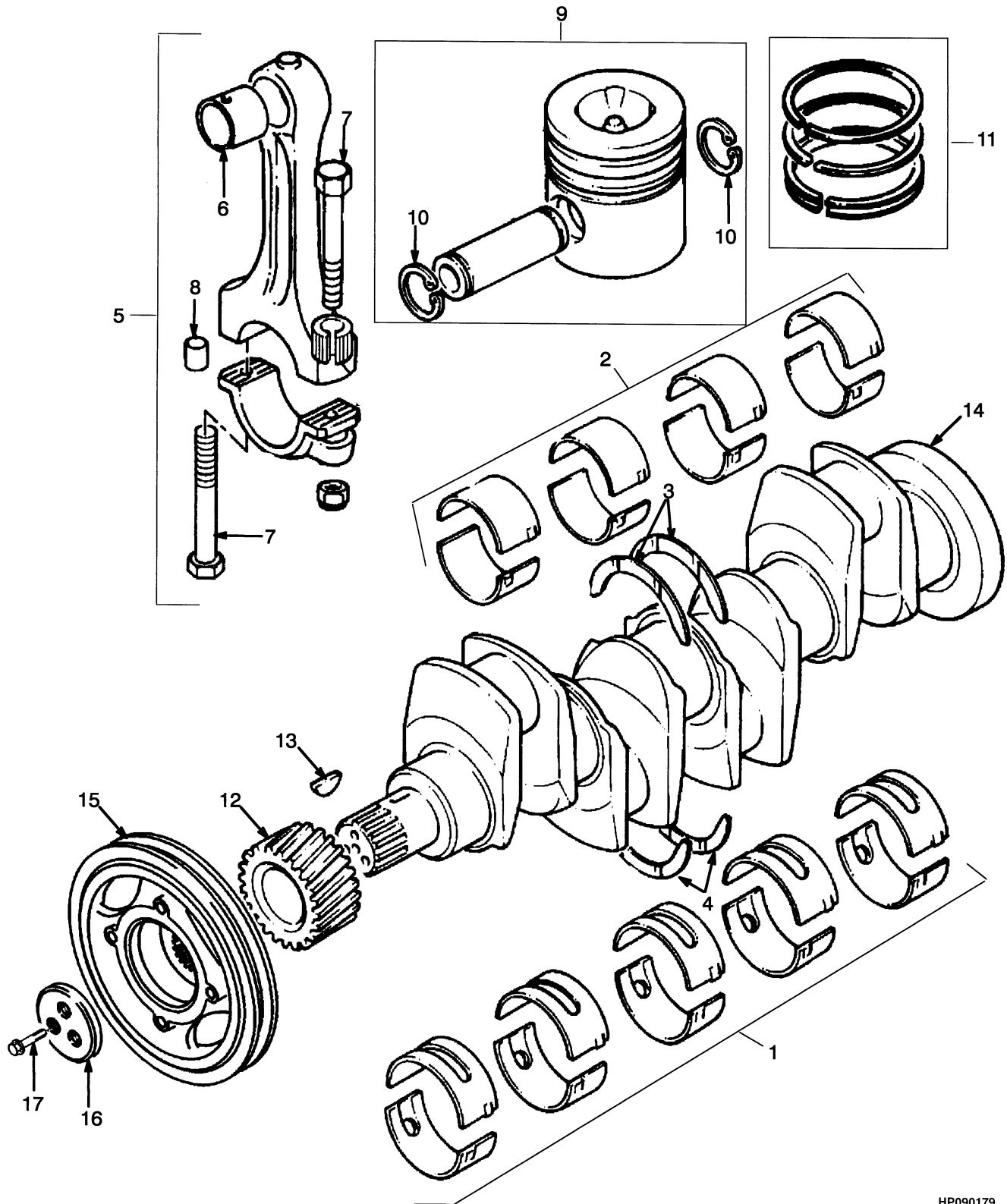


BP090002

CYLINDER HEAD
DIESEL – WITH LOW EMISSIONS (S/N F006D04443 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel	1
	1456716	Kit-Cylinder Head	1
1		Cylinder Head	1
2	1456707	Insert	4
3	1451629	Guide (Valve)	4
4	1456705	Spring	4
5	1456715	Screw	2
6	1451633	Cap	8
7	1451636	Keeper	16
8	1456709	Exhaust Valve (Exhaust)	4
9	1456708	Insert	4
10	1456704	Guide (Valve)	4
11	1451630	Seal	4
11	1456706	Seal (Inlet)	4
12	385531	Plug	1
13	980727	Plug	1
14	150879	Fitting	4
15	992025	Plug	1
16	986475	Washer	1
17	1454176	Dowel	2
18	1456711	Dowel	2
19	1460567	Cylinder Head Gasket	1
20	1456713	Screw	8
21	1456714	Screw	8
22	1370944	Bolt	4
23	1456702	Inlet Valve (Inlet)	4
	1456508	Kit-Gasket (Top)	1

CRANKSHAFT AND PISTON (FIGURE 2-65) DIESEL — WITH LOW EMISSIONS (S/N F006D04443 →)



HP090179

CRANKSHAFT AND PISTON **DIESEL – WITH LOW EMISSIONS (S/N F006D04443 →)**

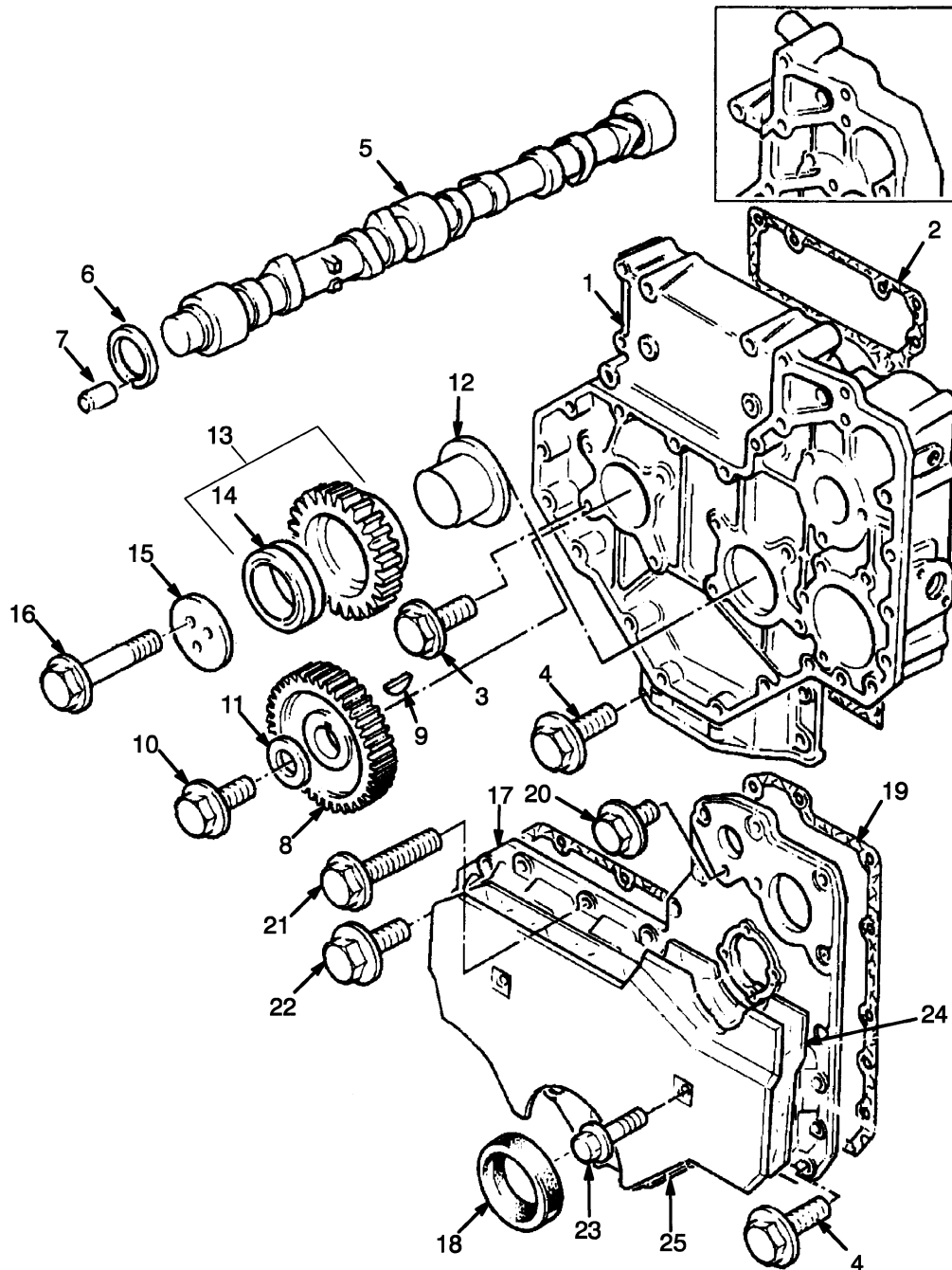
ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel	1
1	a 161425	Kit-Crankshaft Bearing (Standard) (Standard)	1
1	161429	Kit-Crankshaft Bearing (0.010 in.) (Main) (0.010 in.)	1
1	161430	Kit-Crankshaft Bearing (0.020 in.) (Main) (0.020 in.)	1
1	161431	Kit-Crankshaft Bearing (0.030 in.) (Main) (0.030 in.)	1
2	1305699	Piston Rod Bearing (Standard) (Standard)	1
2	1305701	Piston Rod Bearing (0.010 in.) (0.010 in.)	1
2	1305702	Piston Rod Bearing (0.020 in.) (0.020 in.)	1
2	1305703	Piston Rod Bearing (0.030 in.) (0.030 in.)	1
3	161296	Washer (0.007 in.) (0.007 in.)	2
3	a 842799	Washer (Standard)	2
4	161297	Thrust Washer (0.007 in.) (0.007 in.)	2
4	a 842800	Washer (Standard)	2
5	1451601	Kit-Piston Rod	4
6	1451602	Bushing	4
7	1451603	Bolt	8
7	99663	Nut	8
8	1451604	Dowel	4
9	1456700	Kit-Piston (Standard) (Standard)	4
9	1461713	Kit-Piston (0.019 in.) (0,5 mm)	4
9	1461714	Kit-Piston (0.039 in.) (1,0 mm)	4
10	1451606	Snap Ring	2
11	1456701	Kit-Piston Ring (Standard) (Standard)	4
11	1461715	Kit-Piston Ring (0.019 in.) (0,5 mm)	4
11	1461716	Kit-Piston Ring (0.039 in.) (1,0 mm)	4
12	1305706	Gear	1
13	99610	Key	1
14	1456699	Crankshaft	1
15	1306193	Pulley	1
16	1306194	Block	1
17	302713	Screw	3
	1456699	Crankshaft	1

FOOTNOTES:

- a** Crankshaft/Bearing Includes Standard Size Bearings and Thrust Washers

TIMING GEAR (FIGURE 2-66)

DIESEL — WITH LOW EMISSIONS (S/N F006D04443 →)

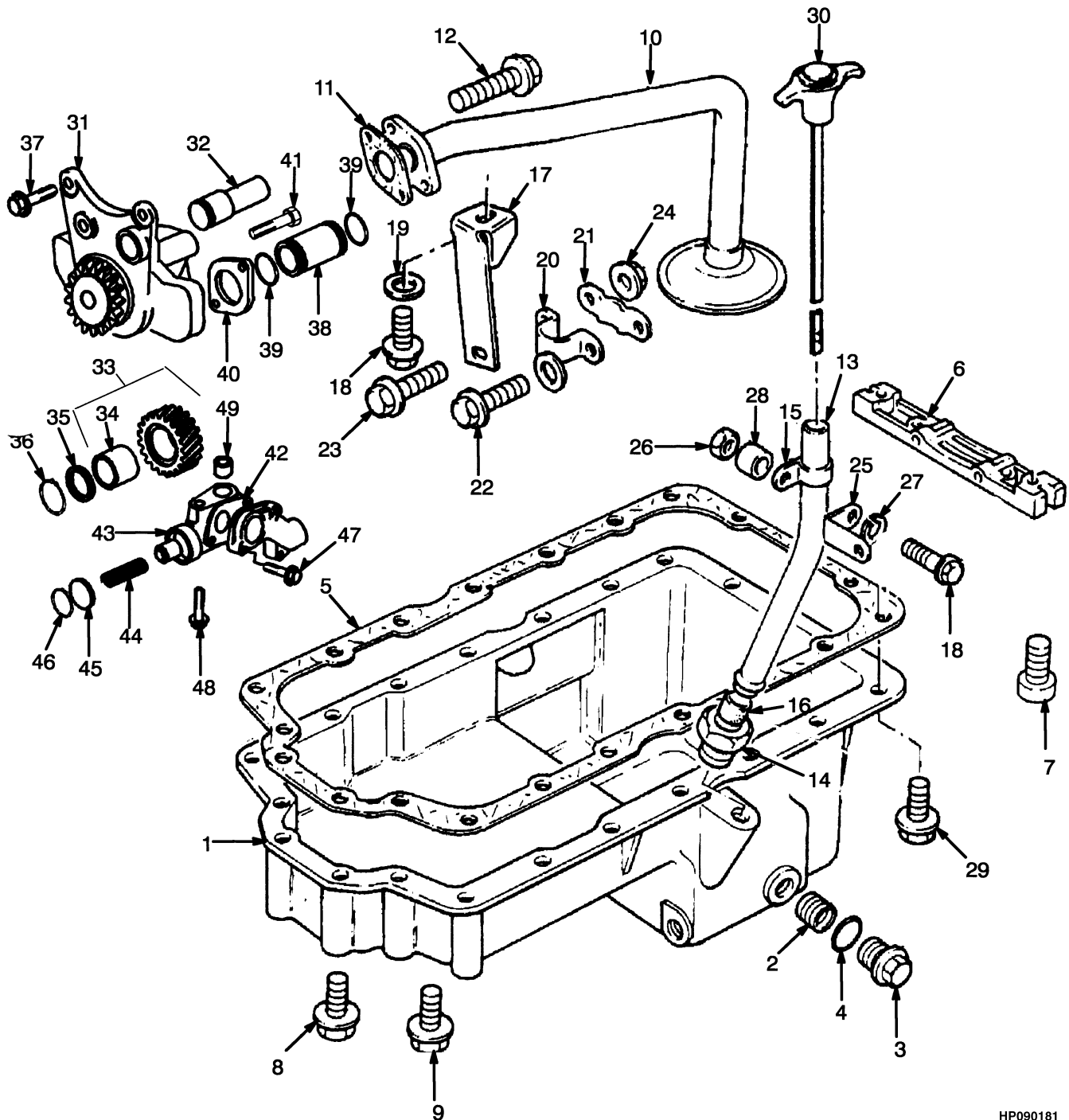


YP090275

TIMING GEAR
DIESEL – WITH LOW EMISSIONS (S/N F006D04443 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel	1
1	1550595	Timing Case	1
2	1536819	Gasket	1
3	386459	Screw	8
4	1306354	Screw	6
5	1456722	Camshaft	1
6	99614	Washer	1
7	298096	Dowel	1
8	1382481	Gear	1
9	99610	Key	1
10	1328565	Screw	1
11	1306364	Washer	1
12	229875	Hub (Idler Gear)	1
13	1306030	Gear	1
14	983484	Bushing	1
15	1382479	Plate	1
16	1306356	Screw	3
17	1456723	Cover	1
18	350399	Seal	1
19	1456724	Gasket	1
20	1306357	Screw	6
21	1306358	Screw	1
22	1306362	Screw	6
23	1451651	Damper	1
24	1306361	Screw	2
25	1451650	Shield	1
	1539325	Kit-Gasket (Bottom)	1

OIL PAN AND PUMP (FIGURE 2-67) DIESEL — WITH LOW EMISSIONS (S/N F006D04443 →)



HP090181

OIL PAN AND PUMP **DIESEL – WITH LOW EMISSIONS (S/N F006D04443 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel	1
1	1306137	Oil Pan	1
2	266465	Insert	2
3	377976	Plug	2
4	1306374	O-Ring	2
5	1371717	Gasket	1
6	1537269	Bridge	1
7	1307875	Screw	2
8	1318965	Screw	6
9	386459	Screw	12
10	1306140	Pipe	1
11	1344921	Gasket	1
12	1307879	Screw	2
13	1385702	Tube Assy	1
14	1307880	Nut	1
15	1386142	Nut	1
16	1306143	Olive	1
17	1306146	Bracket	1
18	1307881	Screw	2
19	1305766	Plate	1
20	1306147	Clip	1
21	1306148	Plate	1
22	1307882	Screw	1
23	1307883	Screw	1
24	1307884		
	1514429	Nut	1
25	1306176	Bracket	1
26	1307887	Nut	1
27	293780	Lockwasher	1
28	245781	Spacer	1
29	1307894	Screw	1
30	1385701	Dipstick	1
31	1306039	Engine Oil Pump	1
32	1380755	Shaft	1
33	1306040	Gear	1
34	1306041	Bushing	1
35	385847	Washer	1
36	328047	Snap Ring	1
37	1306362	Screw	3
38	1306042	Pipe	1
39	1306363	O-Ring	2
40	1306043	Flange	1
41	1306358	Screw	2
42	1315494	Relief Valve	1
43	301749	Plunger	1
44	1306047	Spring	1
45	301751	Cap	1
46	1306328	Snap Ring	1
47	1306367	Screw	3
48	1306368	Screw	1

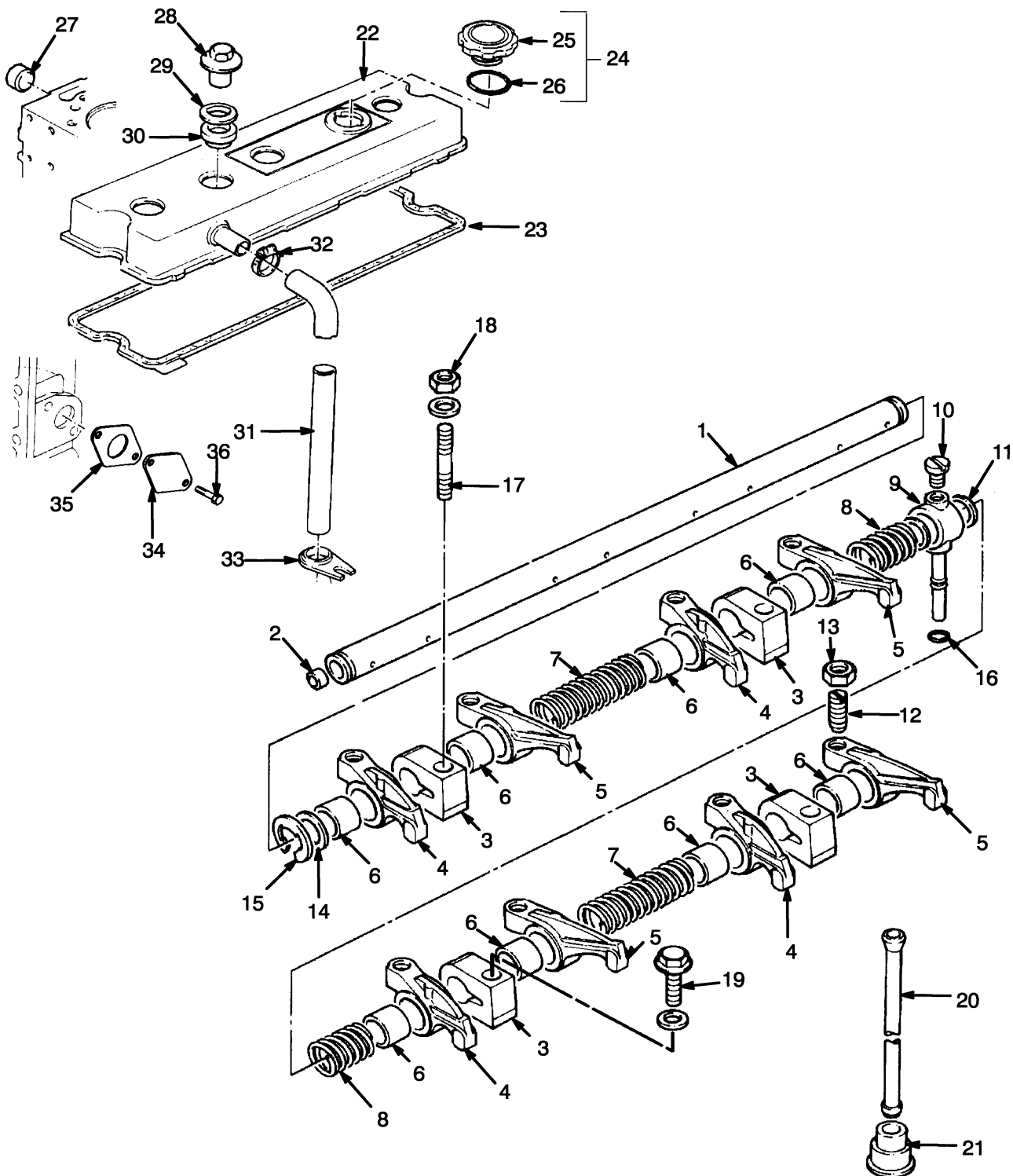
OIL PAN AND PUMP
DIESEL – WITH LOW EMISSIONS (S/N F006D04443 →)

ITEM	PART NO.	DESCRIPTION	QTY
49	1454315	Thimble	1
	1539325	Kit-Gasket (Bottom)	1

NOTES

[illegible]

VALVE COVER AND ROCKER ARM SHAFT (FIGURE 2-68) DIESEL — WITH LOW EMISSIONS (S/N F006D04443 →)

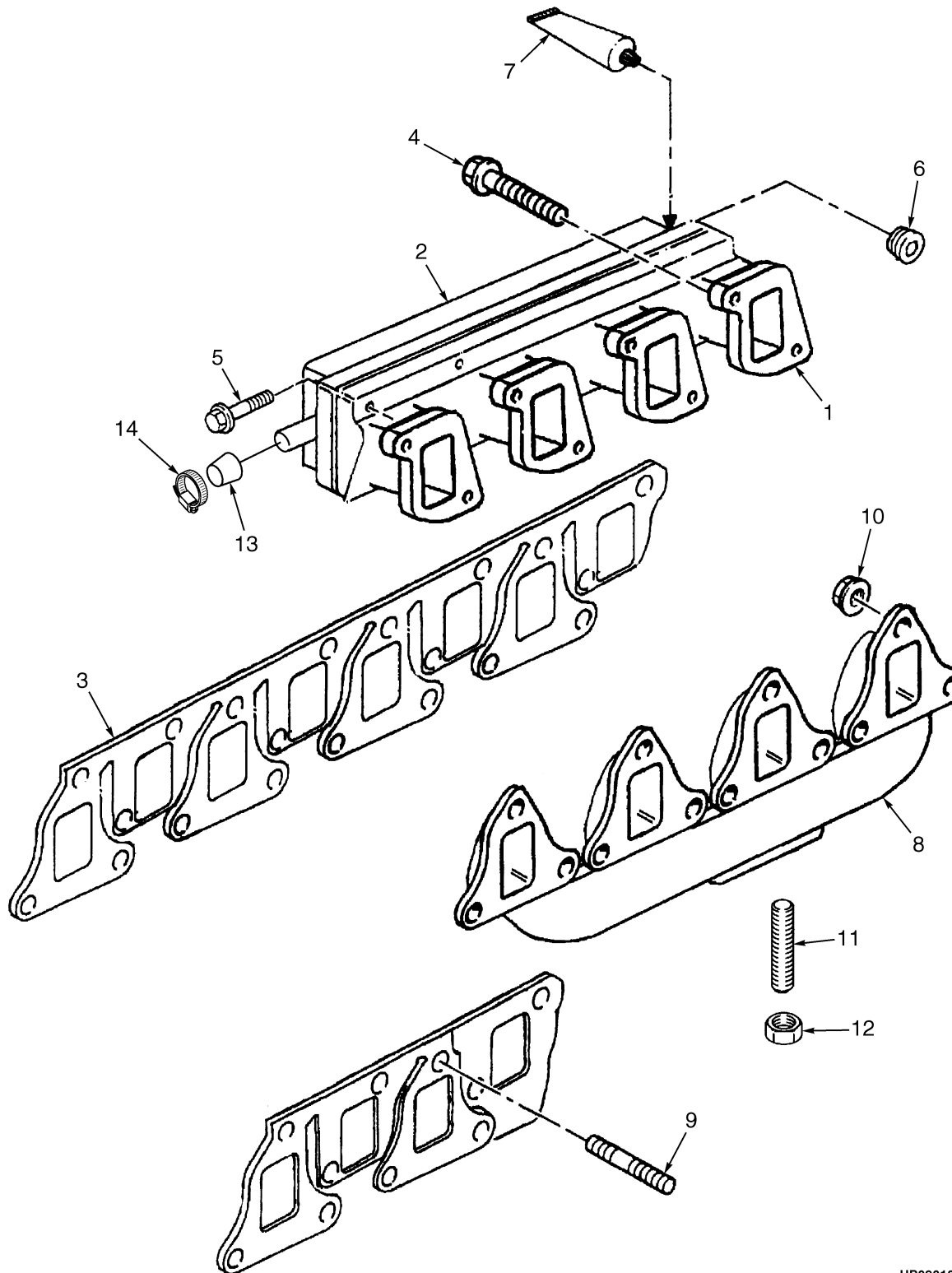


HP090182

**VALVE COVER AND ROCKER ARM SHAFT
DIESEL – WITH LOW EMISSIONS (S/N F006D04443 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel	1
	1456717	Rocker Shaft	1
1	1456718	Rocker Shaft	1
2	990429	Plug	2
3	1370947	Bracket	4
4	1451645	Rocker Arm (LH)	4
5	1451643	Rocker Arm (RH)	4
6	1451644	Bushing	1
7	99722	Spring	2
8	99723	Spring	2
9	1374980	Fitting	1
10	1370948	Screw	1
11	1479697	Shim	2
12	1466859	Screw	8
13	15026	Nut	8
14	1451642	Washer	2
15	99725	Snap Ring	1
16	158187	Olive (Rubber)	1
17	1306351	Stud	3
18	1370949		
	1528888	Nut (Shoulder)	3
19	1306353	Screw	1
20	99728	Rod	8
21	224248	Tappet	8
22	1474676	Engine Cover	1
23	1456741	Valve Cover Gasket	1
24	1391246	Cap	1
25		Cap	1
26	1380247	O-Ring	1
27	161383	Plug	1
28	1380763	Nut	3
29	15125	Washer	3
30	1380245	Seal	3
31	1315496	Pipe	1
32	1380250	Clip	1
33	301785	Bracket	1
34	1306186	Plate	1
35	1380251	Gasket	1
36	386459	Screw	2
	1456508	Kit-Gasket (Top)	1
	1539325	Kit-Gasket (Bottom)	1

MANIFOLD (FIGURE 2-69)
DIESEL — WITH LOW EMISSIONS (S/N F006D04443 →)

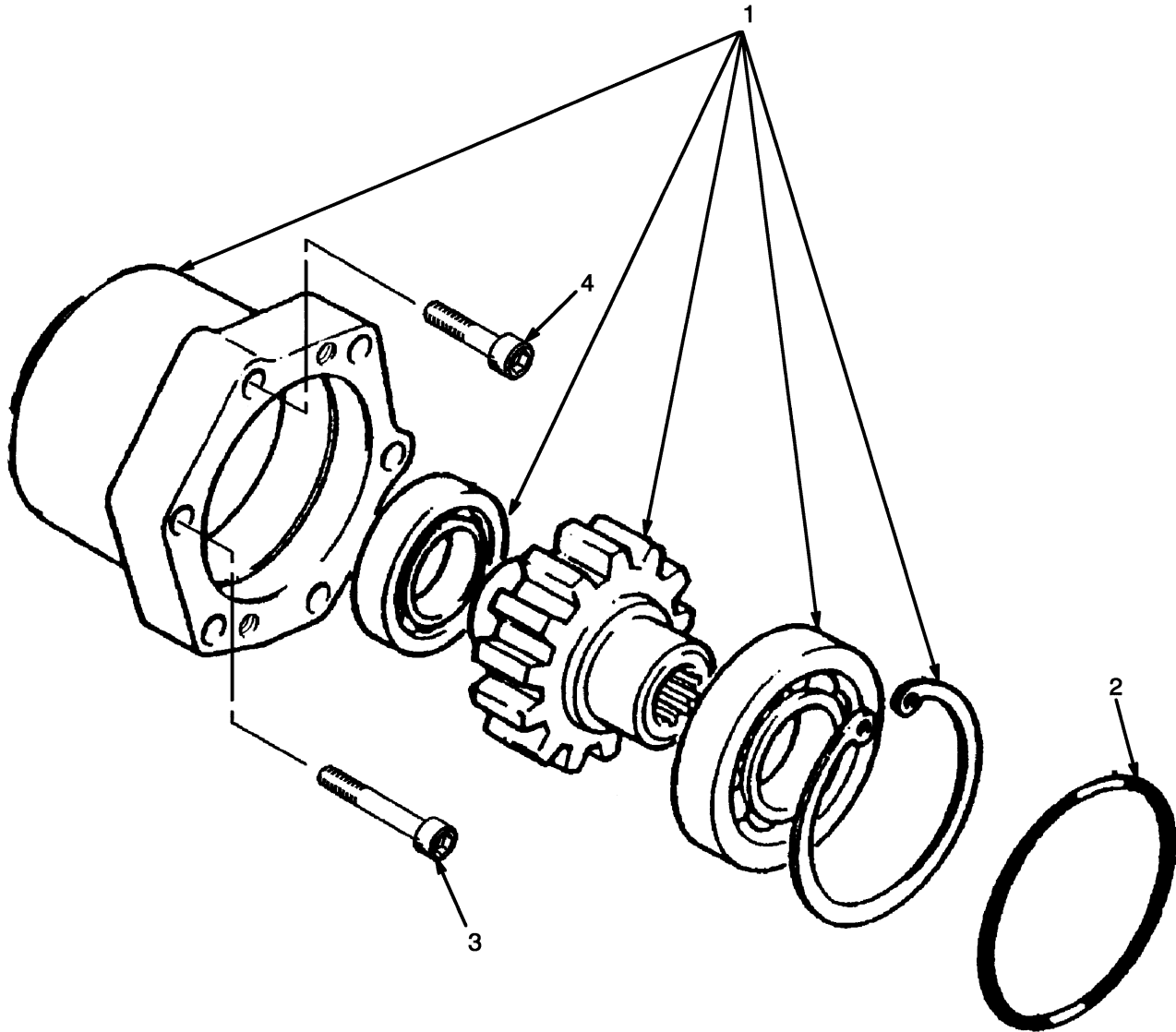


HP090183

MANIFOLD
DIESEL – WITH LOW EMISSIONS (S/N F006D04443 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel	1
1	1472707	Intake Manifold (Induction)	1
2	1515801	Manifold (Intake)	1
3	1456751	Gasket (Inlet/Exhaust)	1
4	1456752	Screw	8
5	1456753	Screw	8
6	982155	Plug	1
7	1456754	Sealant	AR
8	1456755	Exhaust Manifold (Exhaust)	1
9	1307918	Stud	12
10	1456756	Nut	12
11	1307877	Stud	3
12	1306370	Nut	3
13	1472711	Cap	1
14	130845	Clamp	1
	1456508	Kit-Gasket (Top)	1

AUXILIARY DRIVE (FIGURE 2-70)



HP090184

ITEM	PART NO.	DESCRIPTION	QTY
1	1385722	Housing	1
2	1311603	O-Ring	1
3	1311604	Screw	1
4	1311605	Screw	5

3

FUEL SYSTEM

**SECTION 3
FUEL SYSTEM**

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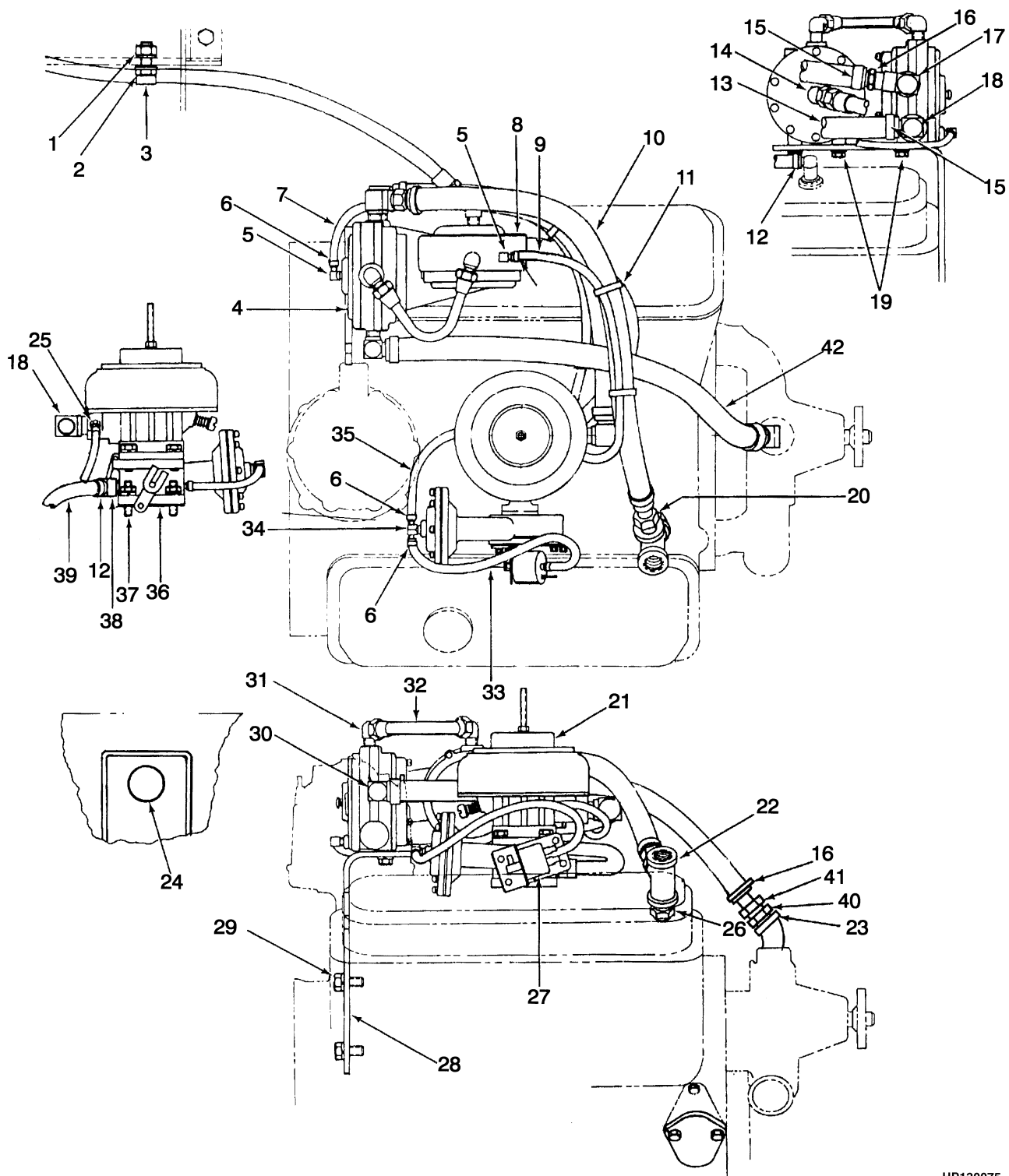
SECTION 3
FUEL SYSTEM

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NOTES

[illegible]

FUEL SYSTEM (FIGURE 3-1) LPG (→ S/N F006A07082)



HP130075

FUEL SYSTEM
LPG (→ S/N F006A07082)

ITEM	PART NO.	DESCRIPTION	QTY
1	136692	Nut	1
1	388049		
	292682	Lockwasher	1
2	136985	Capscrew	1
2	320159	Washer	1
3	128408	Clamp	1
4	196193	Converter (☞ Figure 3-17).....	1
4	1369571	Converter (☞ Figure 3-17).....	1
5	175347	Fitting	2
6	366473	Clamp	8
7	372009	Hose	1
8	258321	Kit-Filter and Lock-Off Valve (☞ Figure 3-16).....	1
9	372008	Hose	1
10	154594	Hose	1
11	129563	Strap Clamp	4
12	353198	Clamp	2
13	369542	Hose	1
14	16863	Fitting	1
15	130845	Clamp	6
16	138710	Fitting	1
17	16143	Fitting	1
18	201800	Fitting	2
19	18460	Capscrew	4
19	292680	Washer	4
19	320156	Washer	4
20	16156	Fitting	1
21	bc 1331600	Lpg Carburetor (☞ Figure 3-10).....	1
21	a 349292	Lpg Carburetor (☞ Figure 3-10).....	1
22	15455	Fitting	1
23	15920	Lockwasher	1
24	180848	Plug	1
24	186495	Adhesive	AR
25	191805	Fitting	1
26	12832	Fitting	1
27	346331	Valve	1
28	352782	Bracket	1
29	16598	Capscrew	2
29	388049		
	292682	Lockwasher	2
30	125305	Fitting	1
31	14358	Fitting	2
32	352781	Tube Assy	1
33	372004	Hose	1
34	346346	Fitting	1
35	372002	Hose	1
36	258298	Gasket	1
37	15055	Nut	4
37	292681	Lockwasher	4
37	295308	Stud	4
38	16694	Fitting	1

FUEL SYSTEM
LPG (→ S/N F006A07082)

ITEM	PART NO.	DESCRIPTION	QTY
39	169712	Hose	1
40	12845	Fitting	1
41	16156	Fitting	1
42	125792	Hose	1

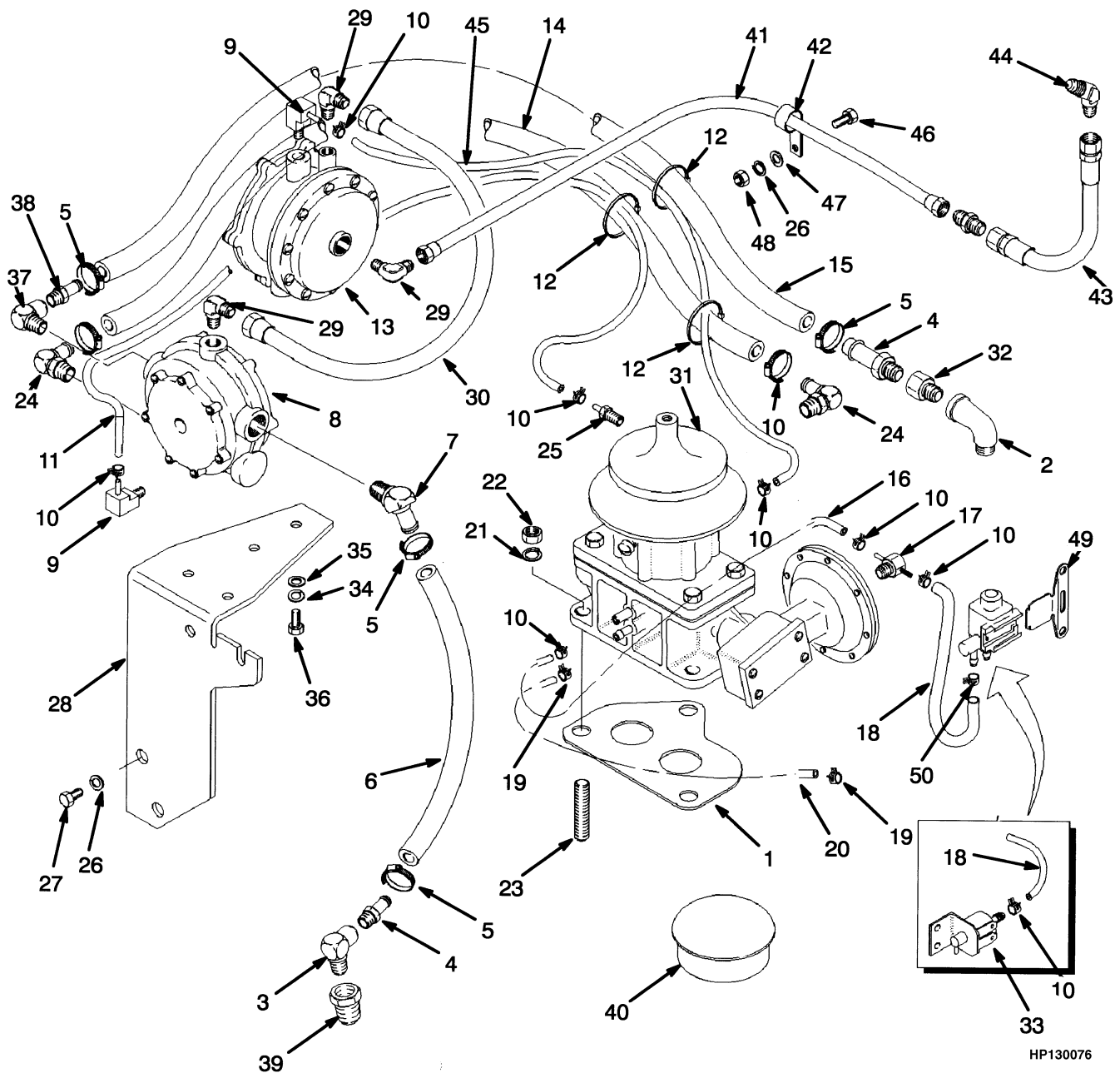
FOOTNOTES:**a** → S/N F006A07082**c** S/N F006D01501 →**b** S/N F006A07083 →

NOTES

[illegible]

FUEL SYSTEM (FIGURE 3-2)

LPG (S/N F006A07083 →) (S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)



HP130076

FUEL SYSTEM**LPG (S/N F006A07083 →) (S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)**

ITEM	PART NO.	DESCRIPTION	QTY
1	1333806	Gasket	1
2	c 19521	Fitting	1
2	g 15337	Fitting	1
3	17324	Fitting	1
4	16156	Fitting	2
5	130845	Clamp	6
6	212355	Hose	1
7	1336135	Fitting	1
8	196193	Converter (☞Figure 3-17).....	1
8	1369571	Converter (☞Figure 3-18).....	1
9	175347	Fitting	2
10	366473	Clamp	7
11	1336136	Hose	1
12	129563	Strap Clamp	4
13	258321	Kit-Filter and Lock-Off Valve (☞Figure 3-16).....	1
14	1336137	Hose	1
15	c 129727	Hose	1
15	g 154594	Hose	1
16	1330396	Hose	1
17	1357073	Fitting (1900 RPM)	1
17	346346	Fitting	1
18	b 1333808	Hose	1
18	ef 1360841	Hose	1
19	353310	Clamp	2
20	1330397	Hose	1
21	292681	Lockwasher	3
22	15055	Nut	3
23	295308	Stud	3
24	201800	Fitting	2
25	191805	Fitting	1
26	388049		
	292682	Lockwasher	2
27	16598	Capscrew	2
28	1331622	Bracket	1
29	14358	Fitting	2
30	352781	Tube Assy	1
31	df 1331600	Lpg Carburetor (☞Figure 3-10).....	1
31	a 349292	Lpg Carburetor (☞Figure 3-10).....	1
32	c 12845	Fitting	1
33	ef 1345677	Solenoid Valve (Solenoid) (Governor)	1
33	b 346331	Valve (Governor)	1
34	15154	Lockwasher	4
35	15127	Washer	4
36	18460	Capscrew	4
37	16143	Fitting	1
38	138710	Fitting	1
39	16344	Fitting	1
40	180848	Plug	1
41	116373	Hose Assy	1
42	128408	Clamp	1

FUEL SYSTEM

LPG (S/N F006A07083 →) (S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)

ITEM	PART NO.	DESCRIPTION	QTY
43	146005	Hose Assy	1
44	16863	Fitting	1
45	1336136	Hose	1
46	136985	Capscrew	1
47	320159	Washer	1
48	136692	Nut	1
49	b 1345676	Bracket	1
50	353310	Clamp	1
	1350685	Kit-Solenoid	1

FOOTNOTES:

a → S/N F006A07082
b → S/N F006A07103
c → S/N F006D02202
d S/N F006A07083 →

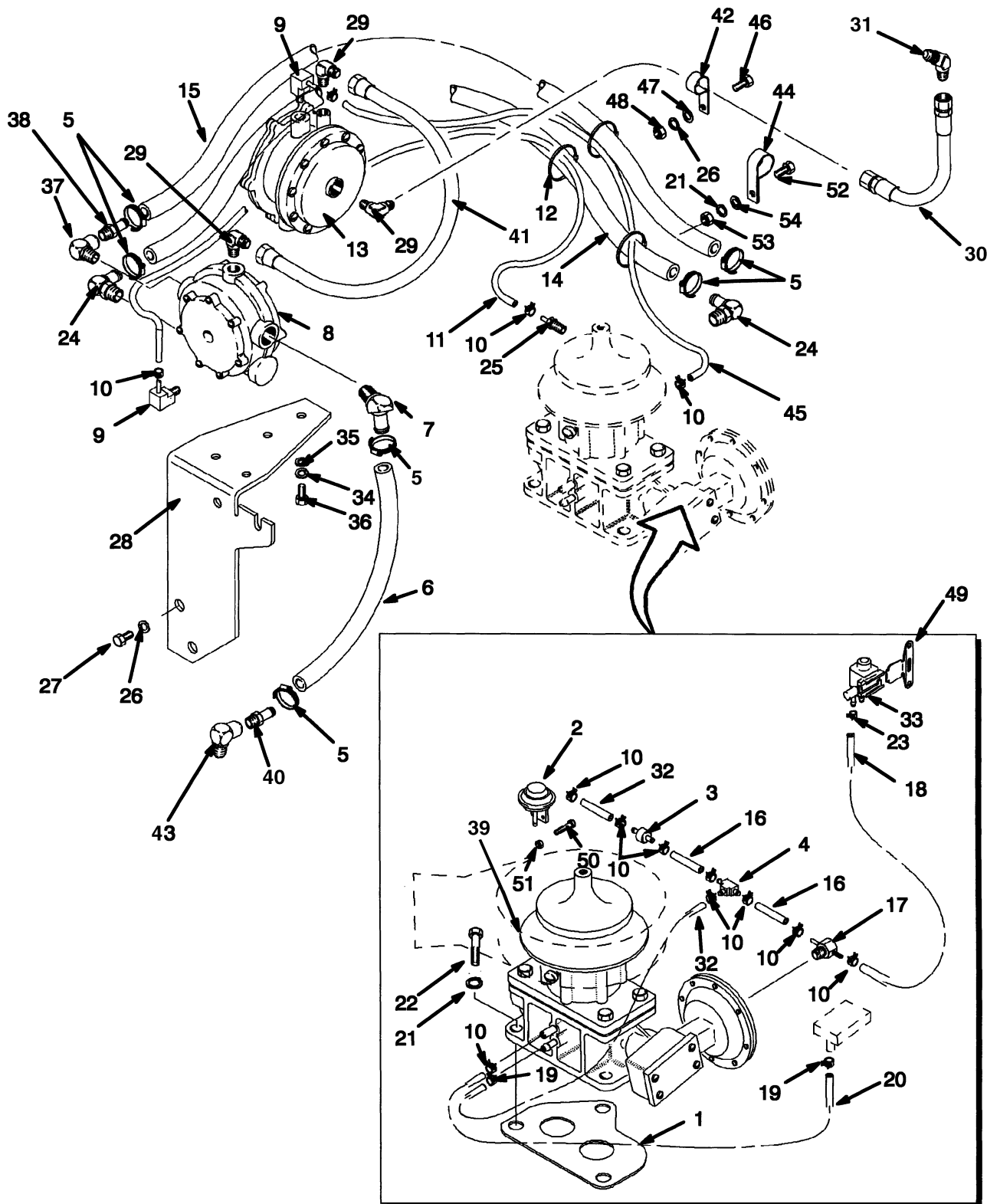
e S/N F006A07104 →
f S/N F006D01501 →
g S/N F006D02203 →

NOTES

[illegible]

FUEL SYSTEM (FIGURE 3-3)

LPG (S/N F006D02948 → INC. 2936 EXC. 2960, 2976)



BP130021

FUEL SYSTEM**LPG (S/N F006D02948 → INC. 2936 EXC. 2960, 2976)**

ITEM	PART NO.	DESCRIPTION	QTY
1	1333806	Gasket	1
2	1346872	Actuator	1
3	1350400	Valve	1
4	1383209	Fitting	1
5	130845	Clamp	6
6	a 78462	Hose	1
6	b 164289	Hose	1
7	a 102898	Fitting	1
7	b 201808	Fitting	1
8	196193	Converter (☞Figure 3-17).....	1
9	175347	Fitting	2
10	366473	Clamp	13
11	1336136	Hose	1
12	129563	Strap Clamp	4
13	258321	Kit-Filter and Lock-Off Valve (☞Figure 3-16).....	1
14	1336137	Hose	1
15	125793	Hose	1
16	372002	Hose	2
17	346346	Fitting	1
18	1360841	Hose	1
19	353310	Clamp	3
20	1330397	Hose	1
21	292681	Lockwasher	3
22	18496	Capscrew	3
23	353310	Clamp	1
24	201800	Fitting	2
25	191805	Fitting	1
26	388049		
	292682	Lockwasher	2
27	16598	Capscrew	2
28	1383305	Bracket	1
29	14358	Fitting	3
30	352781	Tube Assy	1
31	16121	Fitting	2
32	1333808	Hose	2
33	1345677	Solenoid Valve (Solenoid) (Governor)	1
34	15154	Lockwasher	4
35	15127	Washer	4
36	18460	Capscrew	4
37	16143	Fitting	1
38	138710	Fitting	1
39	1383200	Lpg Carburetor (☞Figure 3-11).....	1
40	16156	Fitting	1
41	116373	Hose Assy	1
42	128408	Clamp	1
43	17324	Fitting	1
44	a 178119	Clamp	1
44	b 128408	Clamp	1
45	372008	Hose	1
46	136985	Capscrew	1

FUEL SYSTEM

LPG (S/N F006D02948 → INC. 2936 EXC. 2960, 2976)

ITEM	PART NO.	DESCRIPTION	QTY
47	320159	Washer	1
48	136692	Nut	1
49	1345676	Bracket	1
50	302244	Capscrew	2
51	316825	Nut	2
52	293615	Capscrew	1
53	239503	Nut	1
54	296418	Washer	2

FOOTNOTES:

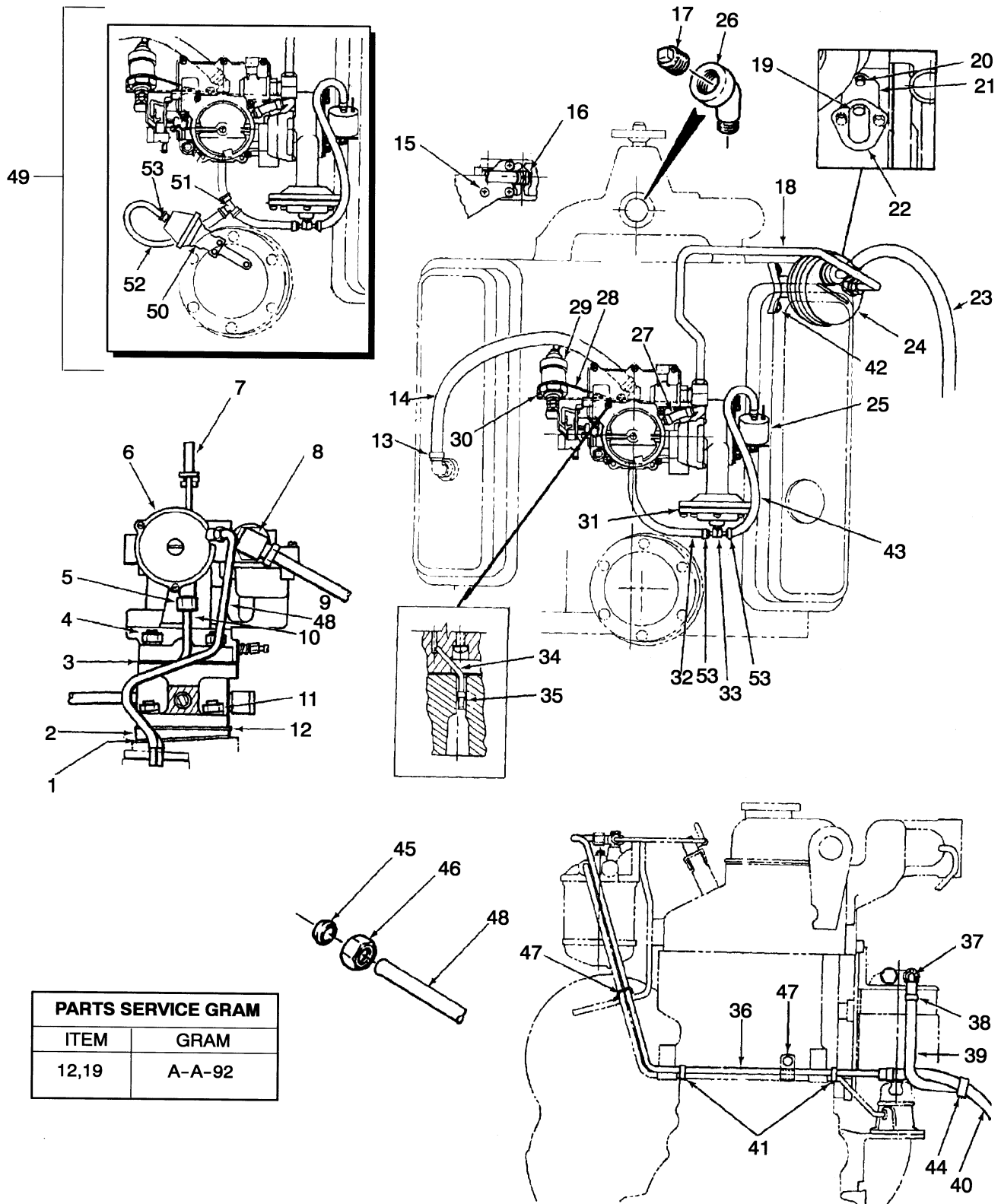
a → S/N F006D03546T

b S/N F006D03547T →

NOTES

[illegible]

FUEL SYSTEM (FIGURE 3-4) GASOLINE AND DIESEL (→ S/N F006A07082 (GASOLINE))



PARTS SERVICE GRAM

ITEM	GRAM
12,19	A-A-92

FUEL SYSTEM

GASOLINE AND DIESEL (→ S/N F006A07082 (GASOLINE))

KEY:**A: Gasoline****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a 1328936	Gasket	1	..
1	258298	Gasket	1	..
2	357321	Spacer	1	..
3	a 1328937	Gasket	1	..
3	369559	Gasket	1	..
4	15055	Nut	4	..
4	292681	Lockwasher	4	..
4	295308	Stud	4	..
5	16114	Fitting	1	..
5	16118	Fitting	1	..
6	368247	Carburetor (☞ Figure 3-13).....	1	..
7	350160	Clamp	1	..
8	14272	Fitting	1	..
9	369143	Tube	1	..
10	369142	Tube	1	..
11	15055	Nut	4	..
11	321855	Stud	4	..
11	350818	Washer	4	..
12	a 1328936	Gasket	1	..
12	258298	Gasket	1	..
13	353198	Clamp	2	..
14	169712	Hose	1	..
15	15152	Lockwasher	3	..
15	16720	Screw	3	..
16	16694	Fitting	1	..
17	15304	Fitting	1	..
18	1300157	Tube Assy	1	..
19	383133	Rod	1	..
20	15154	Lockwasher	1	..
20	16378	Capscrew	1	..
21	1335376	Gasket	1	..
21	350197	Plate (Fuel Pump)	1	..
22	149934	Gasket	1	..
23	344433	Hose	1	..
24	352864	Fuel Pump	1	..
25	346331	Valve	1	..
26	19521	Fitting	1	..
27	369145	Hose	1	..
28	369561	Bracket	1	..
29	360137	Solenoid	1	..
30	370266	Locknut	1	..
31	1385673	Governor (☞ Figure 3-12).....	1	..
32	372002	Hose	1	..
33	346346	Fitting	1	..
34	368241	Tube	1	..

FUEL SYSTEM

GASOLINE AND DIESEL (→ S/N F006A07082 (GASOLINE))

KEY:**A:** Gasoline**B:** Diesel

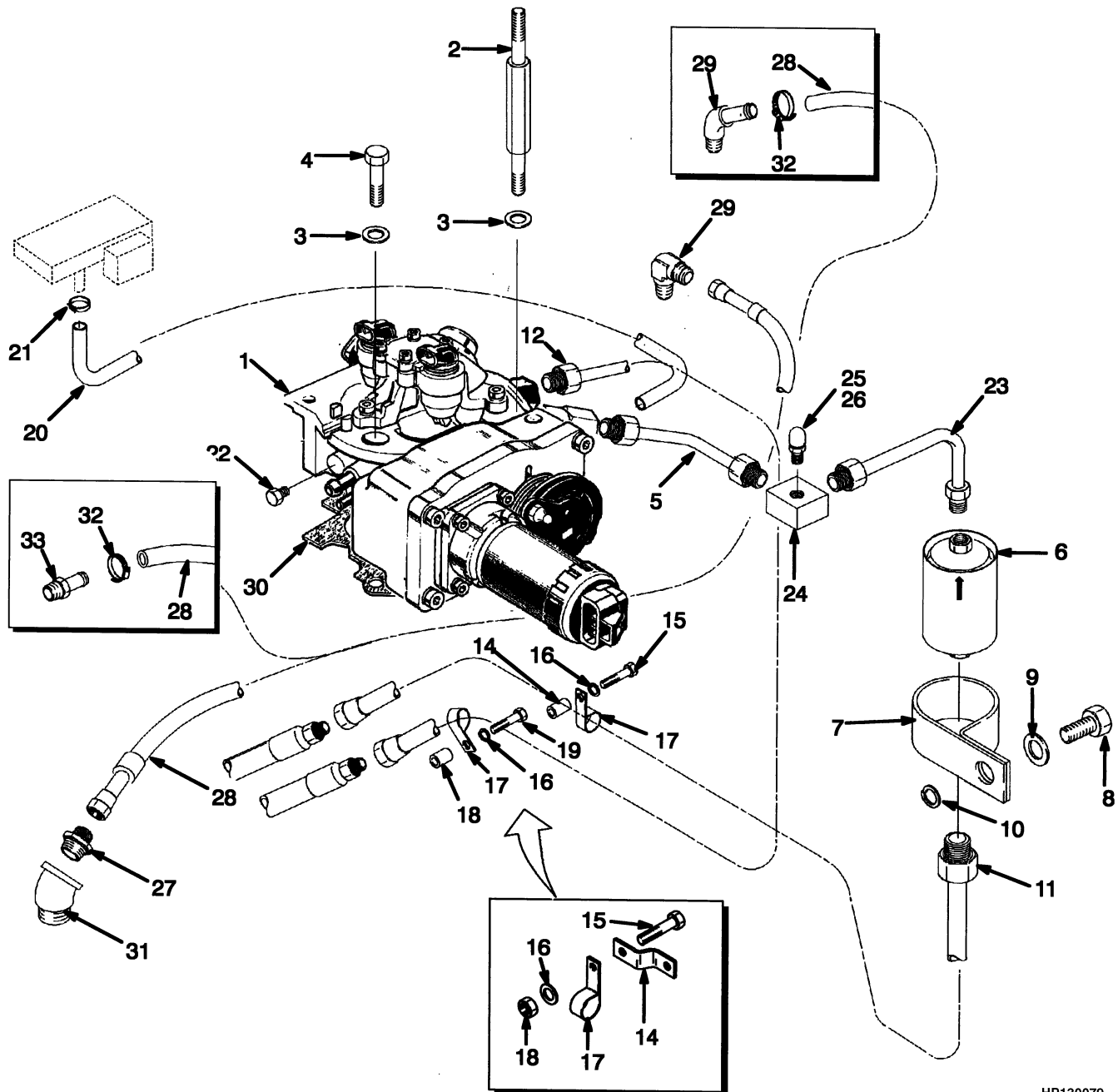
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
35	370299	O-Ring	1	..
36	b 352578	Tube Assy	..	1
37	b 369526	Fitting	..	1
38	168718	Clamp	..	4
39	377602	Hose	..	1
40	352579	Hose	..	1
41	114312	Strap Clamp	..	2
42	15155	Lockwasher	4	..
42	18498	Capscrew	2	..
43	372004	Hose	1	..
44	129563	Strap Clamp	..	1
45	c 16114	Fitting	..	1
46	c 16118	Fitting	..	1
47	c 191828	Clamp	..	3
48	1338655	Insulation	1	..
49	1351168	Kit-Vacuum Advance	1	..
50	356994	Vacuum Control	1	..
51	1351169	Fitting	1	..
52	1360841	Hose	1	..
53	366473	Clamp	4	..

FOOTNOTES:**a** Optional Anti-Icing**b** → S/N F006A03039**c** S/N F006A03040 →

NOTES

[illegible]

FUEL SYSTEM (FIGURE 3-5) GASOLINE (S/N F006A07083 →) (S/N F006D01501 →)



HP130079

FUEL SYSTEM

GASOLINE (S/N F006A07083 →) (S/N F006D01501 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	1327950	Injector (☞ Figure 3-15).....	1
1	1337973	Kit-Injector (☞ Figure 3-15).....	1
2	1327970	Stud	2
3	109919	Seal	3
4	16782	Capscrew	1
5	1339423	Tube Assy	1
6	1330342	Fuel Filter	1
7	176451	Clamp	1
8	136681	Capscrew	1
9	320158	Washer	1
10	292681	Lockwasher	1
11	c 1333828	Tube	1
11	h 1383271	Tube	1
12	c 1333829	Tube	1
12	h 1383231	Tube	1
13	164488	Clamp	1
14	i 1459978	Bracket	1
14	d 325463	Spacer (Long)	1
15	d 16816	Capscrew	1
15	i 176640	Bolt	1
16	d 15156	Lockwasher	2
16	i 320157	Washer	1
17	164488	Clamp	2
18	d 1337382	Spacer (Short)	1
18	d 1345979	Spacer (Optional)	1
18	i 302400	Nut	1
19	16828	Capscrew	1
20	1333807	Hose	1
21	1333840	Clamp	1
22	1333825	Plug	2
23	h 1339424	Tube Assy	1
23	fk 1383230	Tube Assy	1
24	1339425	Fitting	1
25	1345991	Pressure Valve	1
26	1339438	Seal	1
27	ej 12845	Fitting	1
27	ab 17345	Fitting	1
28	ab 1346154	Hose Assy	1
28	ej 1367710	Hose	1
29	ej 17177	Fitting	1
29	ab 69239	Fitting	1
30	1333806	Gasket	1
31	g 15337	Fitting	1
31	ej 19521	Fitting	1
32	fk 130845	Clamp	2
33	fk 222473	Fitting	1

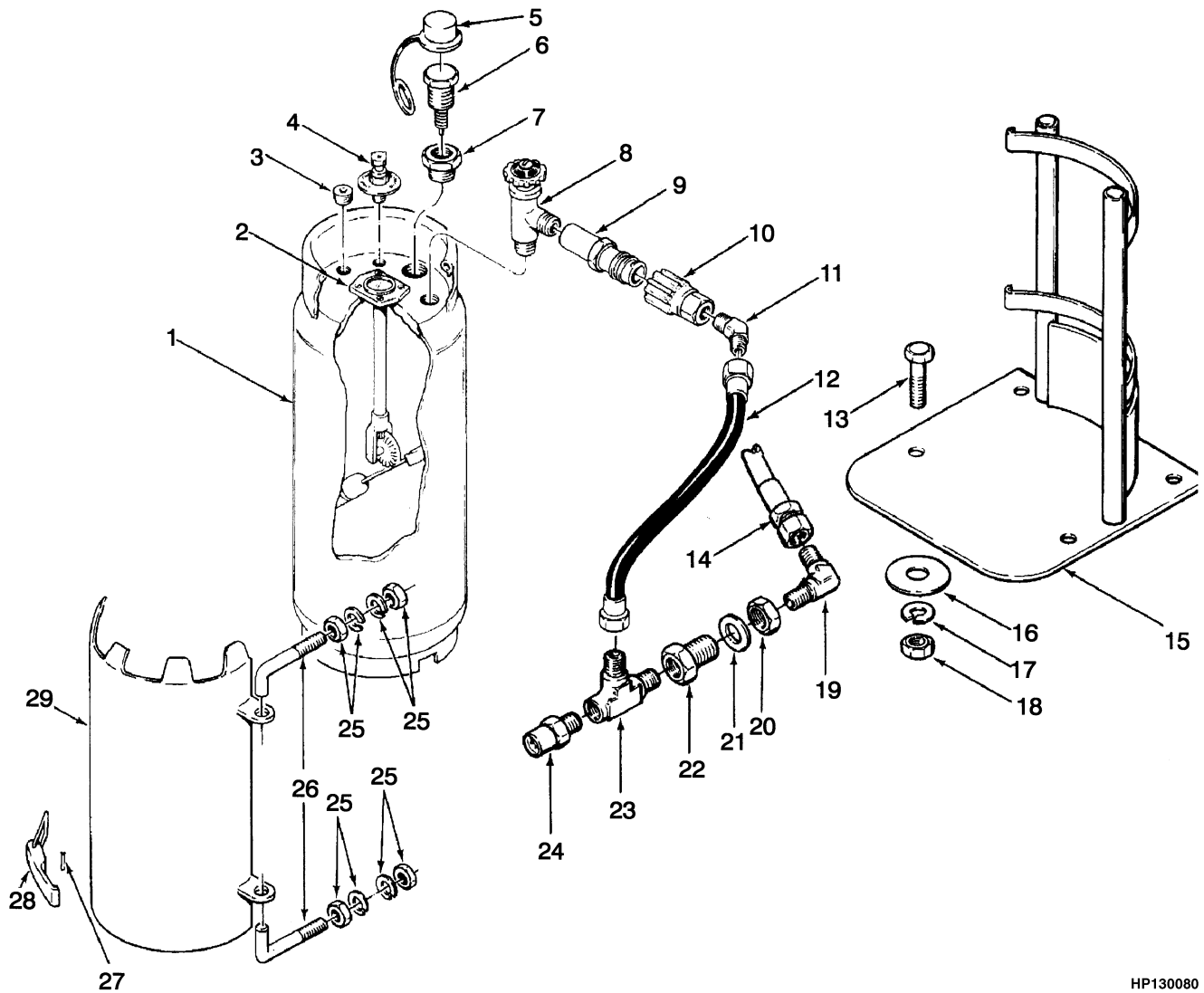
FOOTNOTES:

- | | | | |
|----------|--|----------|---------------------------------|
| a | → S/N F006A07825 | g | S/N F006D02203 ↔ S/N F006D02947 |
| b | → S/N F006D01532 | h | S/N F006D02948 → |
| c | → S/N F006D02947 INC. 2960, 2976 EXC. 2936 | i | S/N F006D04792V → |
| d | → S/N F006D04791V | j | S/N F006A07826 → |
| e | S/N F006D01533 ↔ S/N F006D02202 | k | S/N F006A07836 → |
| f | S/N F006D01533 ↔ S/N F006D02974 | | |

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins or other markings visible.

FUEL TANK (FIGURE 3-6) LPG

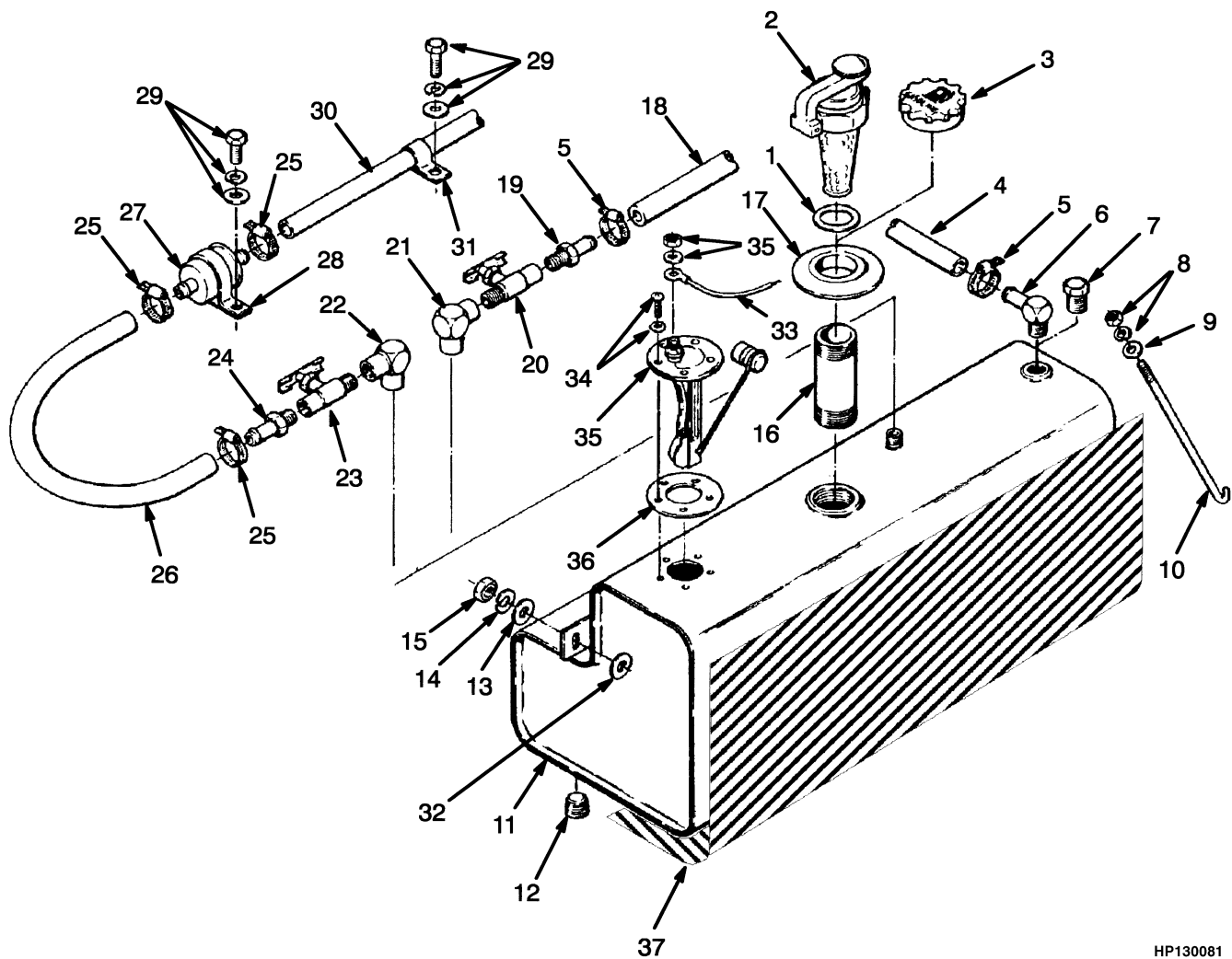


HP130080

**FUEL TANK
LPG**

ITEM	PART NO.	DESCRIPTION	QTY
1	125789	Lpg Tank (LPG)	1
2	197041	Gauge (Bolt on Type)	1
2	344230	Gauge (Screw in Type)	1
3	246869	Plug (Magnetic)	1
4	197038	Gauge	1
4	344232	Gauge (Optional with Removable Dip Tube)	1
5	200172	Cap	1
6	200170	Relief Valve	1
7	344228	Adapter	1
8	233908	Valve	1
9	124010	Coupling	1
10	97999	Fitting	1
11	16863	Fitting	1
12	146005	Hose Assy	1
13	246001	Capscrew	4
14	116373	Hose Assy (LH)	1
15	357310	Bracket	1
16	300932	Washer	4
17	292683	Lockwasher	4
18	1318914 216877	Nut	4
19	16863	Fitting	1
20	15036	Nut	1
21	15166	Lockwasher	1
22	121347	Fitting	1
23	14440	Fitting	1
24	101809	Relief Valve	1
25	15006	Nut	4
25	15156	Lockwasher	4
26	98334	Pin	2
27	19923	Roll Pin	2
28	97988W	Latch	2
29	1331042	Cover (RH)	1

FUEL TANK (FIGURE 3-7)
GASOLINE AND DIESEL (→ S/N F006A07082)



HP130081

FUEL TANK

GASOLINE AND DIESEL (→ S/N F006A07082)

KEY:**A: Gasoline****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a 138880	Shim (0.020 in.)	AR	AR
2	a 63899	Fuel Cap	1	1
3	298831	Fuel Cap	1	..
3	298832	Fuel Cap	..	1
3	311245	Gasket	1	1
4	1314349	Hose	..	1
5	168718	Clamp	..	4
6	17343	Fitting	..	1
7	14349	Fitting (Pipe Plug)	1	..
8	15004	Nut	1	1
8	15154	Lockwasher	1	1
9	15127	Washer	1	1
10	293048	Link	1	1
11	340781	Fuel Tank	1	1
12	15962	Fitting	1	1
13	320157	Washer	1	1
14	292681	Lockwasher	1	1
15	239503	Nut	2	2
16	344429	Tube (Filler)	1	1
17	270770	Grommet	1	1
18	377602	Hose	..	1
19	1316809	Fitting	..	1
20	16190	Drain Valve (Shutoff)	..	1
21	17728	Fitting	..	1
22	16151	Fitting	1	..
23	87446	Drain Valve (Shut-Off)	1	..
24	17352	Fitting	1	..
25	166857	Clamp	4	..
26	344435	Hose	1	..
27	1346283	Fuel Filter	1	..
28	181899	Clamp	1	..
29	15155	Lockwasher	2	..
29	16374	Capscrew	2	..
29	18515	Washer	2	..
30	344433	Hose	1	..
31	128408	Clamp	1	..
32	1334790	Washer	AR	AR
33	1318511	Wire	1	1
34	16708	Screw	5	5
34	350483	Sealing Ring	5	5
35	1322232	Sender	1	1
36	111561	Gasket	1	1
37	895411	Seal	AR	AR
	996015	Kit-Tune-Up	1	1

FOOTNOTES:

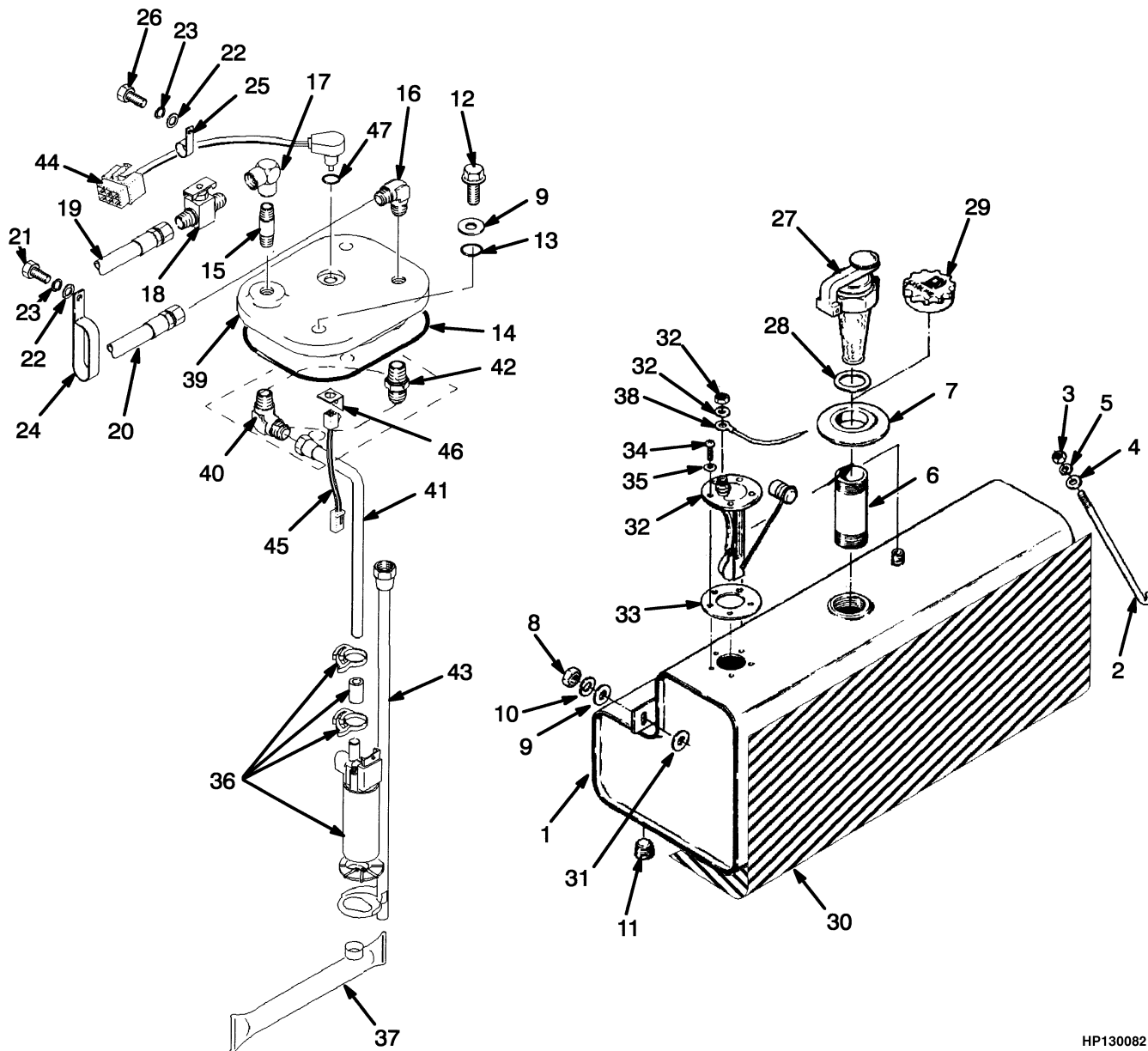
a Optional

NOTES

[illegible]

FUEL TANK (FIGURE 3-8)

GASOLINE (S/N F006D01501 →) (S/N F006A07083 →)



HP130082

FUEL TANK
GASOLINE (S/N F006D01501 →) (S/N F006A07083 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	1327973	Fuel Tank	1
2	293048	Link	1
3	15004	Nut	1
4	15127	Washer	1
5	15154	Lockwasher	1
6	344429	Tube	1
7	270770	Grommet	1
8	239503	Nut	2
9	292681	Lockwasher	2
10	320157	Washer	2
11	15962	Fitting	1
12	329067	Screw	2
13	353000	O-Ring	2
14	353106	Seal (Square Ring)	1
15	15324	Fitting	1
16	42213	Fitting	1
17	17728	Fitting	1
18	1330340	Drain Valve (Shut Off)	1
19	1336131	Hose (Supply)	1
20	1336132	Hose (Return)	1
21	16836	Capscrew	1
22	18515	Washer	1
23	15155	Lockwasher	1
24	203230	Clamp	1
25	198675	Clamp	1
26	16836	Capscrew	1
27	63899	Fuel Cap (Optional)	1
28	138880	Shim (0.020 in.)	AR
29	298831	Fuel Cap	1
30	895411	Seal	AR
31	1334790	Washer	AR
32	1322232	Sender	1
33	111561	Gasket	1
34	16708	Screw	5
35	350483	Sealing Ring	5
36	1330324	Fuel Pump	1
37	1327961	Strainer	1
38	1318511	Wire	1
39	1333822	Cover	1
40	14357	Fitting	1
41	1330251	Tube	1
42	14303	Fitting	1
43	1331605	Pipe	1
44	1330383	Wire Harness (Fuel Tank)	1
45	1330382	Wire Harness (Fuel Pump)	1
46	1330326	Nut	1
47	1330325	O-Ring	1
	a 895411	Seal (Tank)	AR

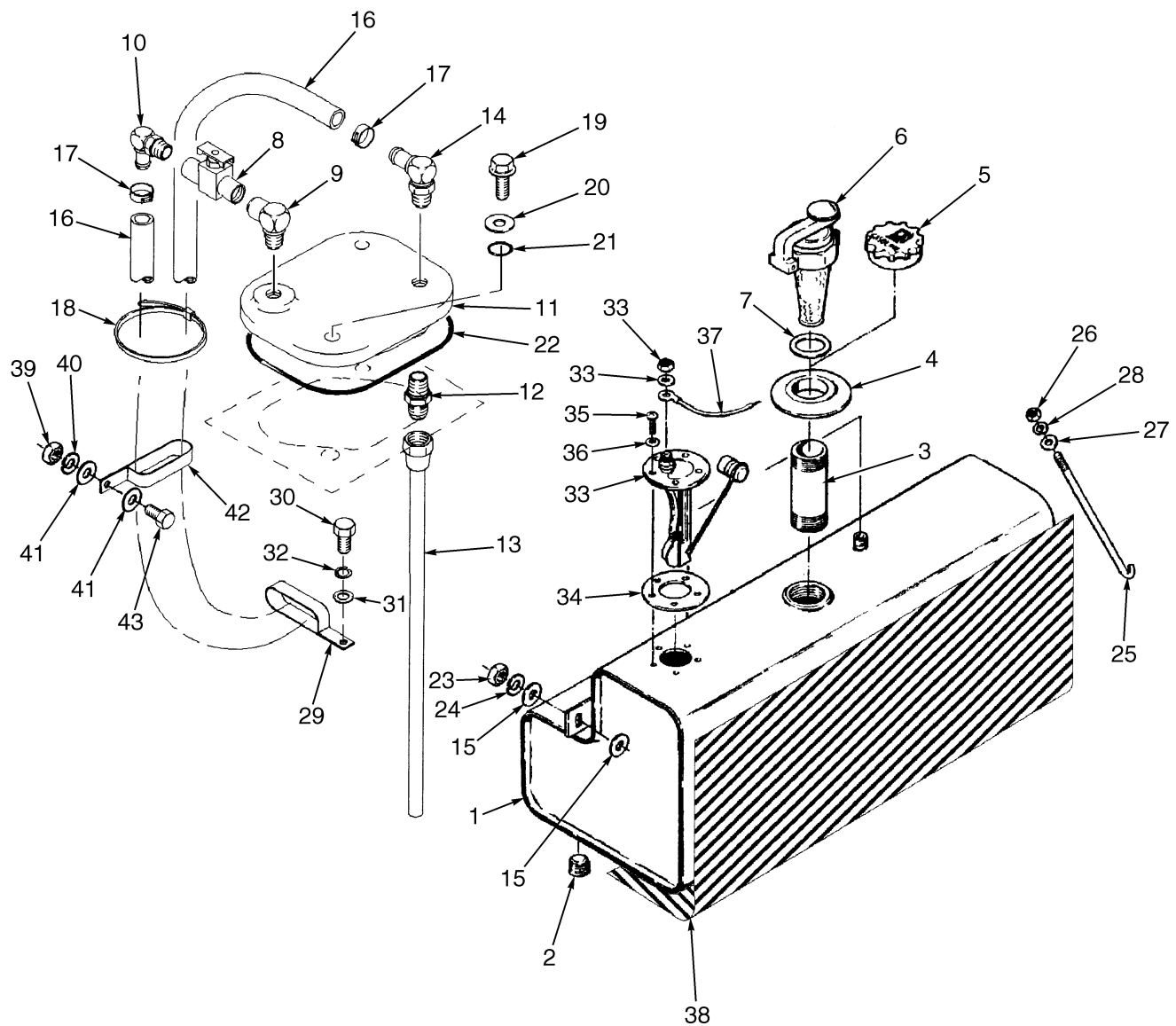
FOOTNOTES:

a Not Illustrated

NOTES

[illegible]

FUEL TANK (FIGURE 3-9) DIESEL

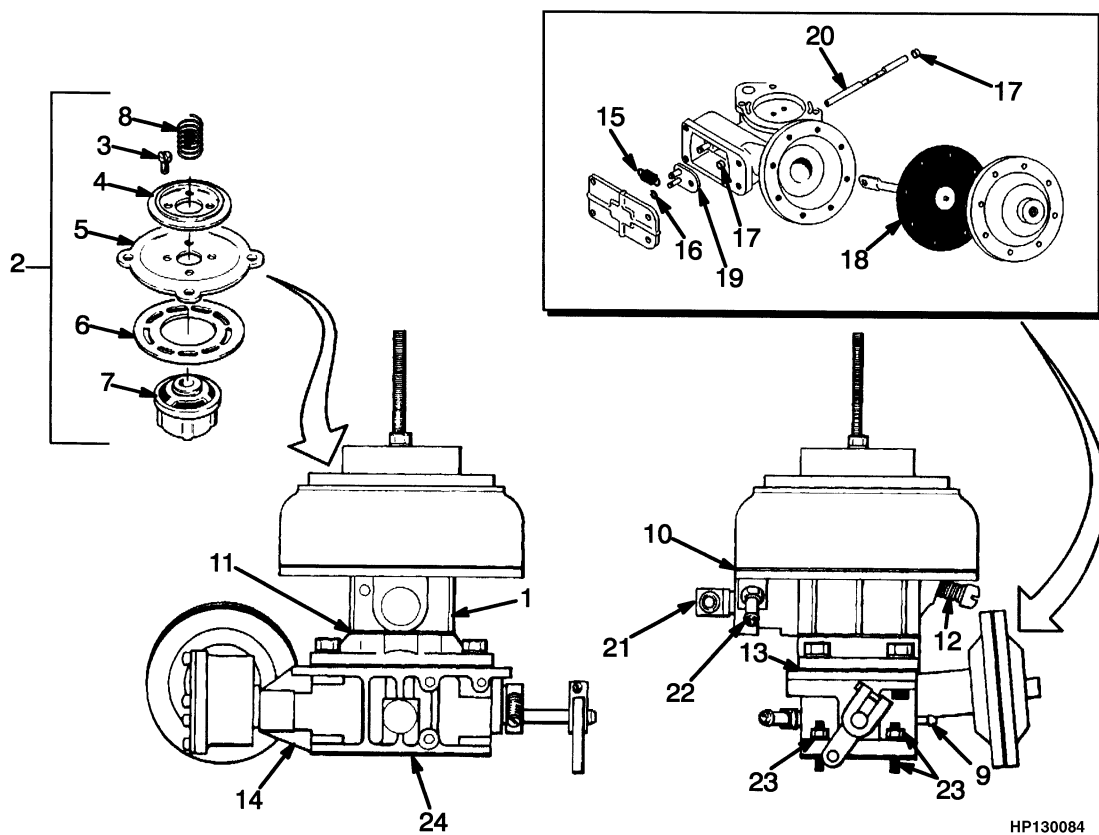


HP130306

**FUEL TANK
DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1327973	Fuel Tank	1
2	15962	Fitting	1
3	344429	Tube	1
4	270770	Grommet	1
5	298832	Fuel Cap	1
6	63899	Fuel Cap (Optional)	1
7	138880	Shim (0.020 in.)	AR
8	16190	Drain Valve (Shutoff)	1
9	17736	Fitting	1
10	17215	Fitting	1
11	1336146	Cover (Fuel Tank)	1
12	14303	Fitting	1
13	1330254	Tube Assy (Return)	1
14	17343	Fitting	1
15	1384790	Washer	AR
16	387326	Hose	2
17	168718	Clamp	4
18	129563	Strap Clamp	2
19	329067	Screw	2
20	320157	Washer	2
21	353000	O-Ring	2
22	353106	Seal (Square Ring)	1
23	239503	Nut	2
24	292681	Lockwasher	2
25	293048	Link	1
26	15004	Nut	1
27	15127	Washer	1
28	15154	Lockwasher	1
29	176910	Clamp	1
30	18496	Capscrew	1
31	18515	Washer	1
32	15155	Lockwasher	1
33	1322232	Sender	1
34	111561	Gasket	1
35	16708	Screw	5
36	350483	Sealing Ring	5
37	1318511	Wire	1
38	895411	Seal	AR
39	239503	Nut	1
40	292681	Lockwasher	1
41	320157	Washer	2
42	129684	Clamp	1
43	136749	Screw	1

CARBURETOR (FIGURE 3-10)
LPG (→ S/N F006D02947 INC. 2960, 2976 EXC. 2936)



CARBURETOR

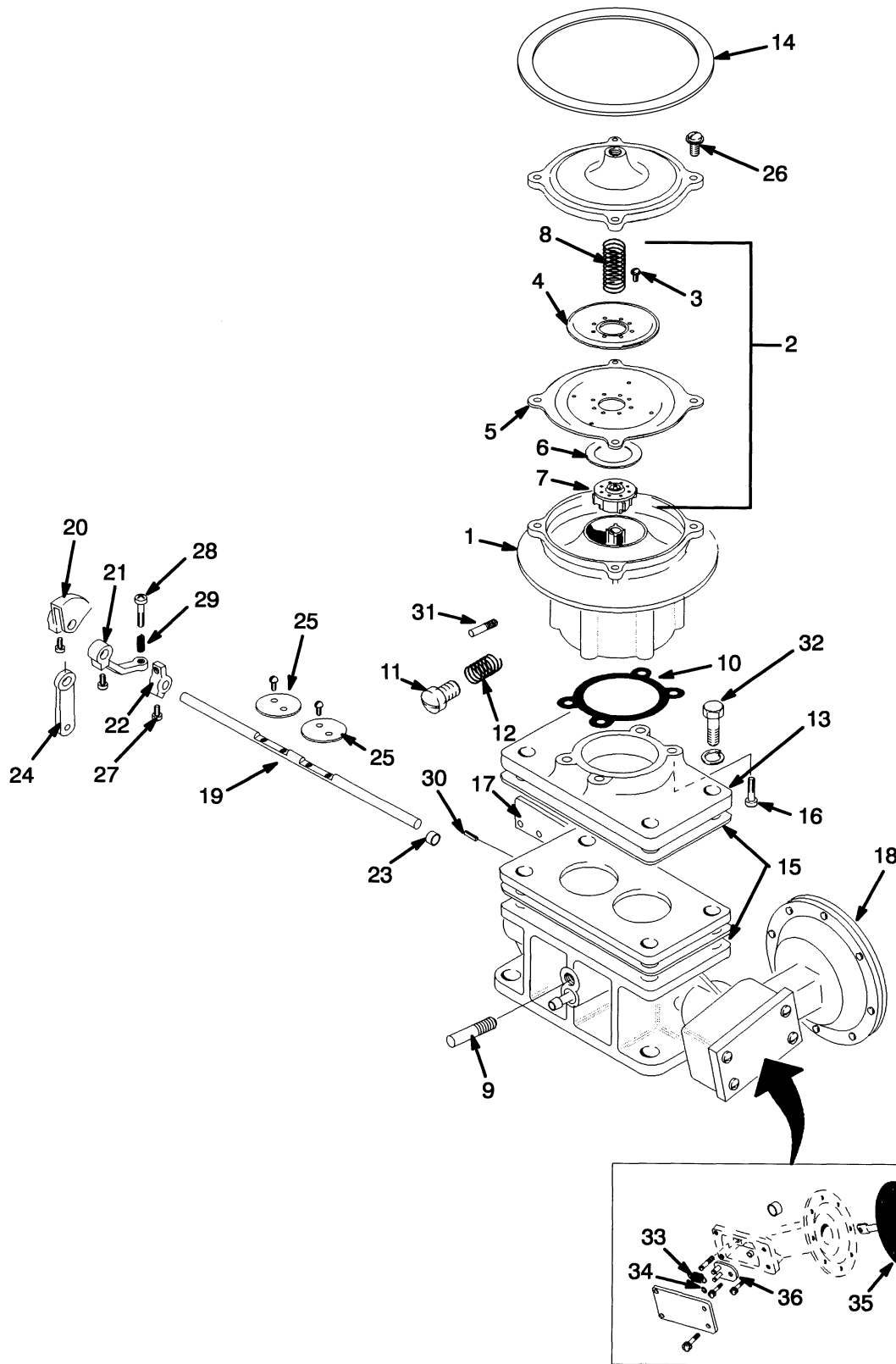
LPG (→ S/N F006D02947 INC. 2960, 2976 EXC. 2936)

ITEM	PART NO.	DESCRIPTION	QTY
	bc 1331600	Lpg Carburetor	1
	a 349292	Lpg Carburetor	1
1	374712	Mixer	1
2	204782	Kit-Valve and Diaphragm	1
3		Screw	4
4		Back-Up Plate	1
5		Diaphragm	1
6		Ring (Air Valve)	1
7		Valve	1
8		Spring	1
9	372115	Fitting	1
10	261963	Gasket	1
11	204787	Gasket	1
12	214117	Spring	1
13	374714	Gasket	1
14	bc 1342990	Governor	1
14	a 374703	Governor	1
15	374710	Spring	1
16	374709	Ring	1
17	374708	Bearing	2
18	bc 1339102	Diaphragm	1
18	a 374704	Diaphragm	1
19	bc 374706	Lever	1
19	a 374707	Lever	1
20	bc 1339103	Shaft	1
21	201800	Fitting	2
22	191805	Fitting	1
23	15055	Nut	4
23	292681	Lockwasher	4
23	295308	Stud	4
24	1328936	Gasket (Anti-Icing) (Optional)	1
24	bc 1333806	Gasket	1
24	a 258298	Gasket	1

FOOTNOTES:**a** → S/N F006A07082**c** S/N F006D01501 →**b** S/N F006A07083 →

CARBURETOR (FIGURE 3-11)

LPG (S/N F006D02948 → INC. 2936 EXC. 2960, 2976)

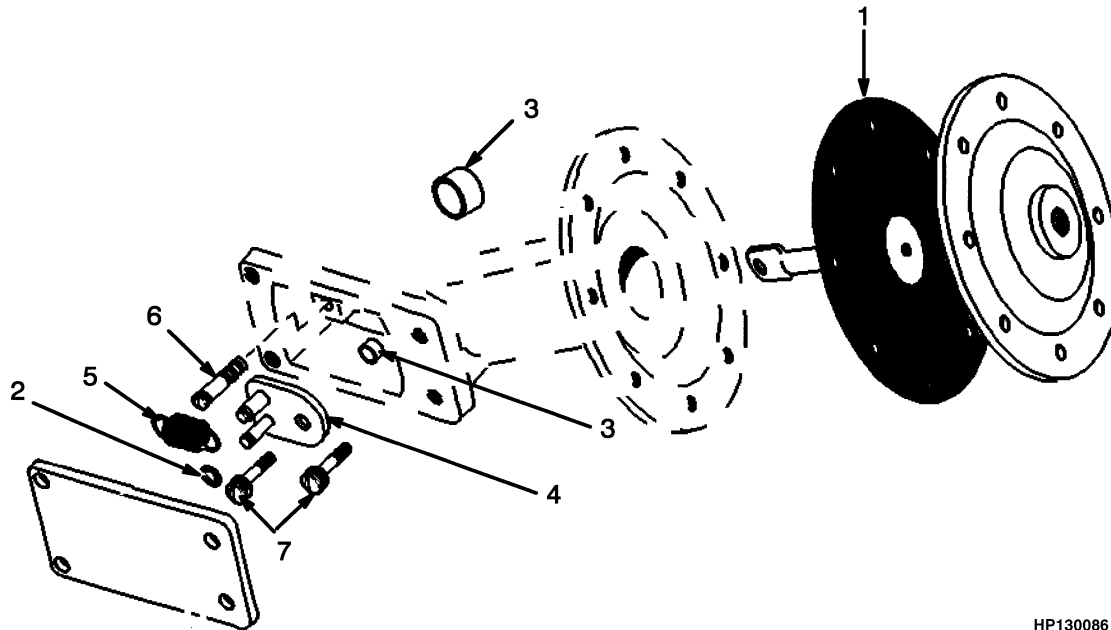


HP130132

CARBURETOR**LPG (S/N F006D02948 → INC. 2936 EXC. 2960, 2976)**

ITEM	PART NO.	DESCRIPTION	QTY
	1383200	Lpg Carburetor	1
1	374712	Mixer	1
2	204782	Kit-Valve and Diaphragm	1
3	220283	Screw	4
4		Back-Up Plate	1
5	1369038	Diaphragm	1
6	204858	Ring (Air Valve)	1
7		Valve	1
8	374713	Spring	1
9	372115	Fitting	1
10	204787	Gasket	1
11		Idle Screw	1
12	214117	Spring	1
13		Adapter	1
14	261963	Gasket	1
15	374714	Gasket	2
16		Bolt	4
17	1383265	Bracket	1
18	1385673	Governor (☞ Figure 3-12).....	1
19	1383264	Shaft	1
20	1342997	Clamp	1
21	1358241	Lever	1
22		Lever Assembly	1
23	374708	Bearing	2
24		Floating Lever	1
25		Throttle Plate	2
26		Screw	4
27	1358243	Pin (Screw)	3
28	1374057	Screw	1
29	204824	Spring	1
30		Roll Pin	1
31	372115	Fitting	1
32		Bolt and Washer	4
33	374710	Spring	1
34	374709	Ring	1
35	1339102	Diaphragm	1
36	1339101	Lever	1

GOVERNOR (FIGURE 3-12)



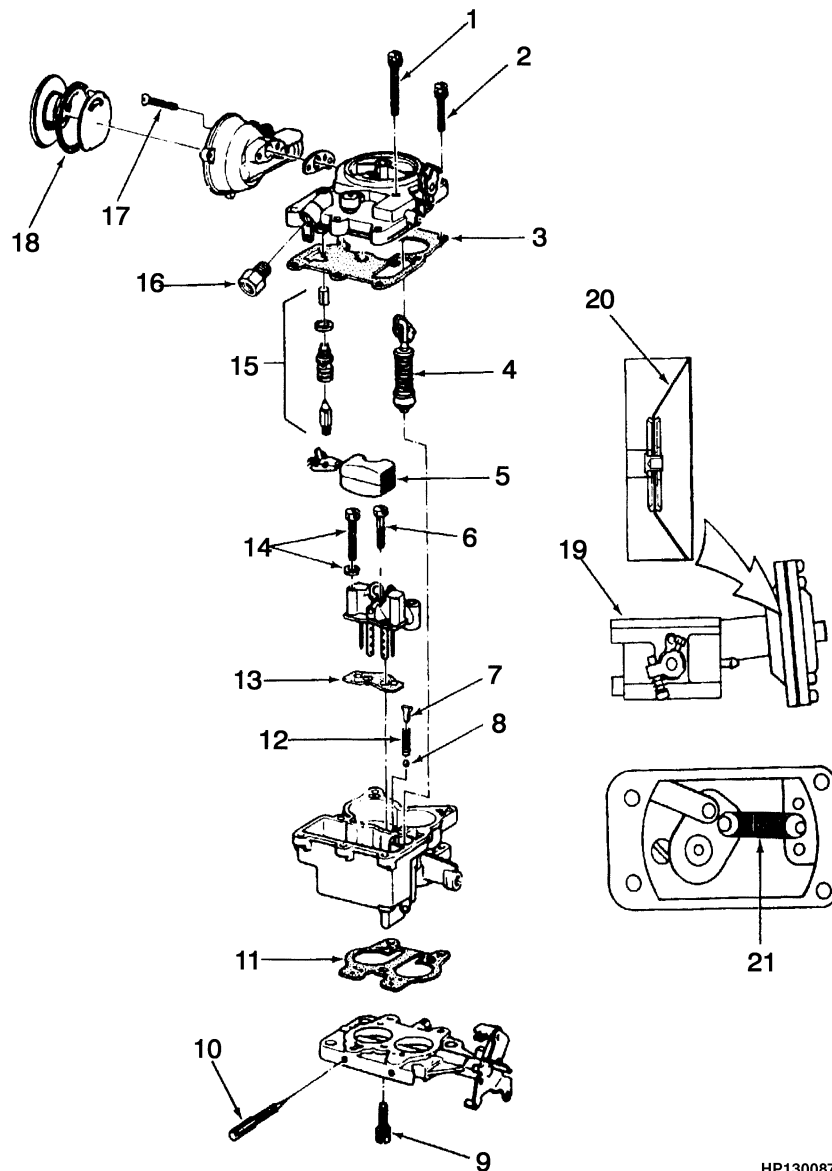
HP130086

ITEM	PART NO.	DESCRIPTION	QTY
	1385673	Governor	1
1	1339102	Diaphragm	1
2	374709	Ring	1
3	374708	Bearing	2
4	374706	Lever	1
5	374710	Spring	1
6		Return Spring Pin	1
7	204790	Screw	2

NOTES

[illegible]

CARBURETOR (FIGURE 3-13) GASOLINE (→ S/N F006A07082)



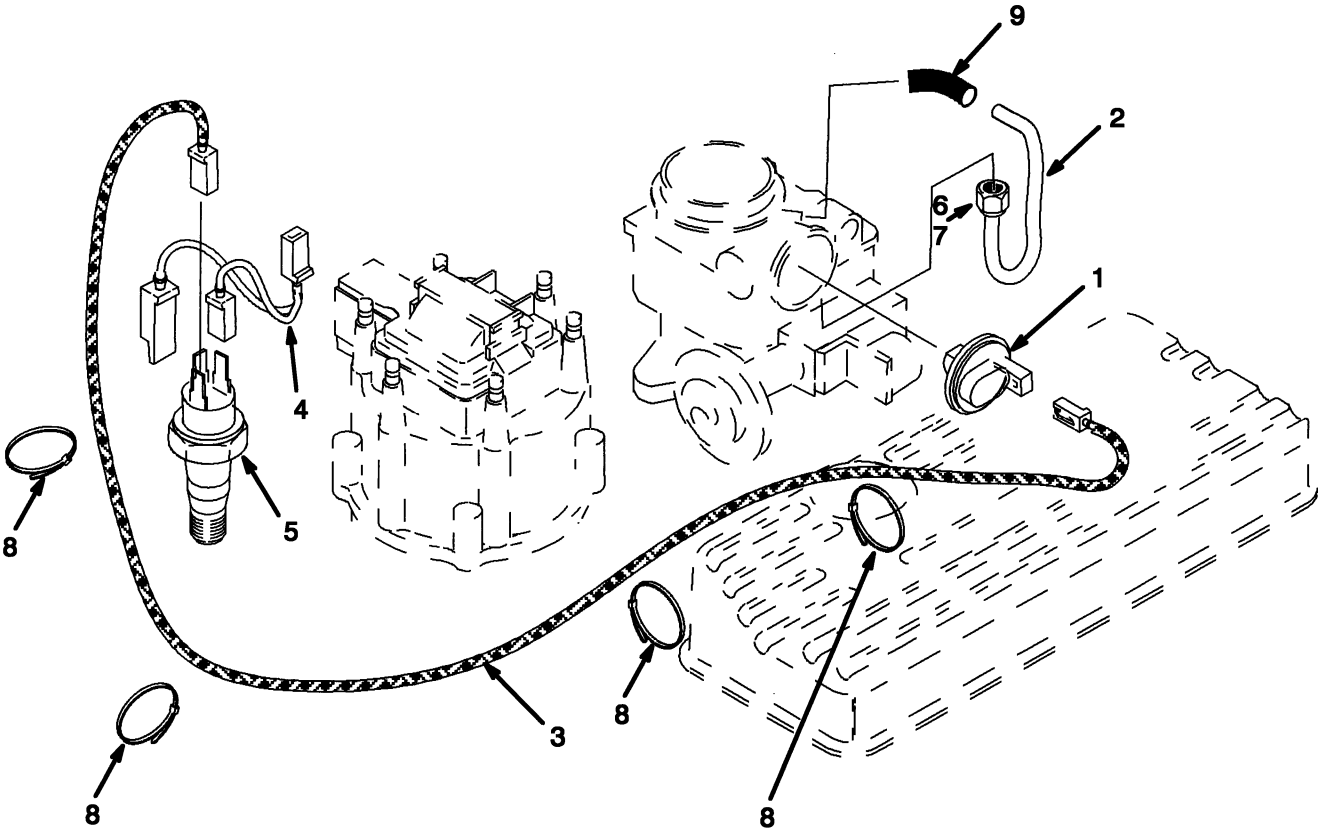
HP130087

CARBURETOR
GASOLINE (→ S/N F006A07082)

ITEM	PART NO.	DESCRIPTION	QTY
	368247	Carburetor	1
1		Capscrew	7
2		Capscrew	1
3		Gasket	1
4	374933	Pump	1
5	374930	Float	1
6		Capscrew	1
7		Guide	1
8		Ball	1
9		Capscrew	3
10	374931	Needle Bearing	1
11		Gasket	1
12		Spring	1
13		Gasket	1
14		Capscrew	2
14		Lockwasher	2
15		Needle and Seat	1
16	374929	Fuel Filter	1
17		Capscrew	2
18		Gasket	1
19	344997	Governor	1
20	1339102	Diaphragm	1
21	374710	Spring	1
	374928	Carburetor	1

ELECTRIC CHOKE (FIGURE 3-14)

PARTS SERVICE GRAM	
ITEM	GRAM
1	EB-29



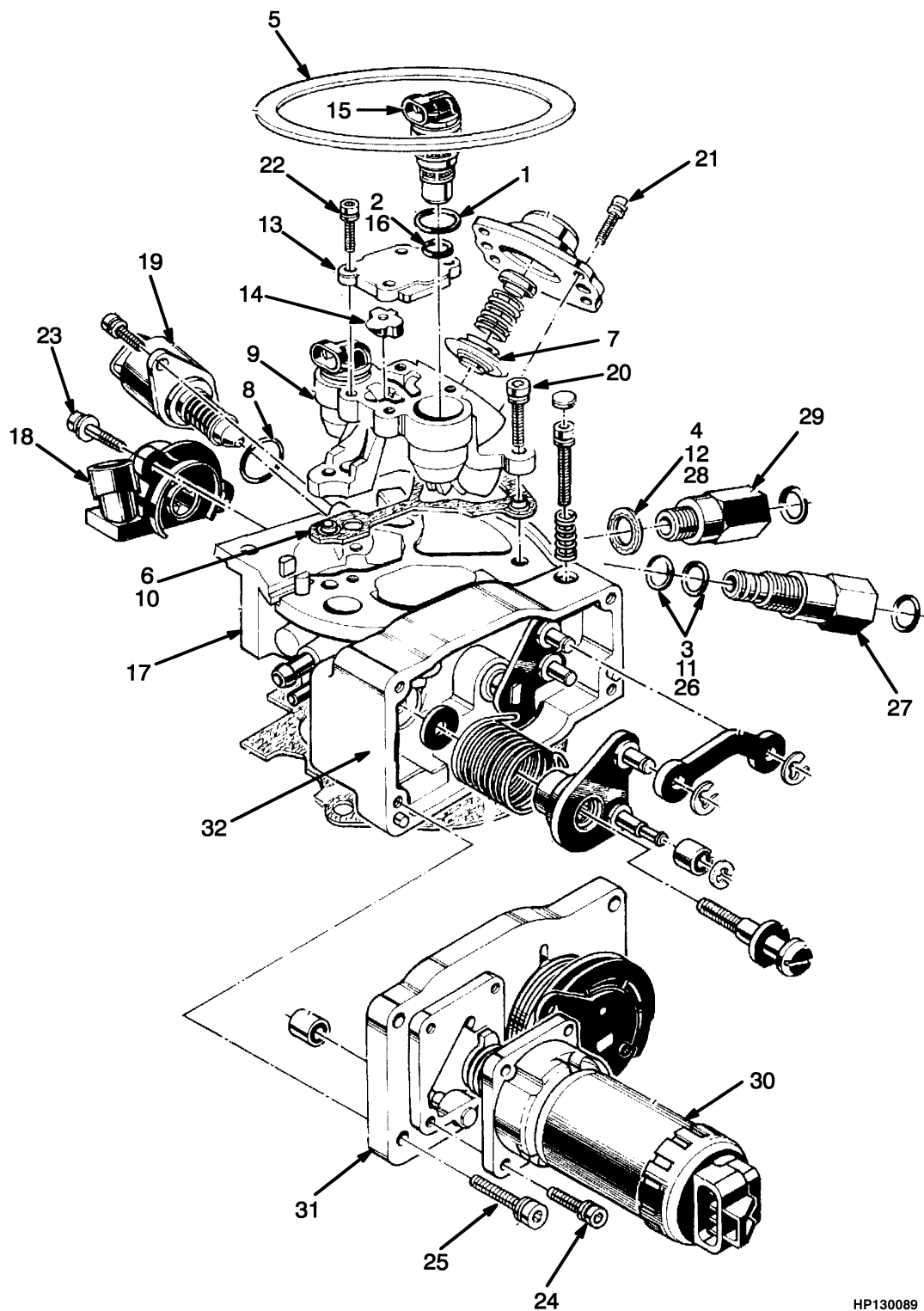
HP130088

ELECTRIC CHOKE

ITEM	PART NO.	DESCRIPTION	QTY
1	1339912	Electric Choke	1
2	1339913	Tube	1
3	1339914	Wire	1
4	1339915	Wire Harness	1
5	1337819	Pressure Switch	1
6	16114	Fitting	1
7	16118	Fitting	1
8	129563	Strap Clamp	4
9	369145	Hose	1

THROTTLE BODY INJECTOR (FIGURE 3-15)

(S/N F006A07083 →) (S/N F006D01501 →)



HP130089

THROTTLE BODY INJECTOR

(S/N F006A07083 →) (S/N F006D01501 →)

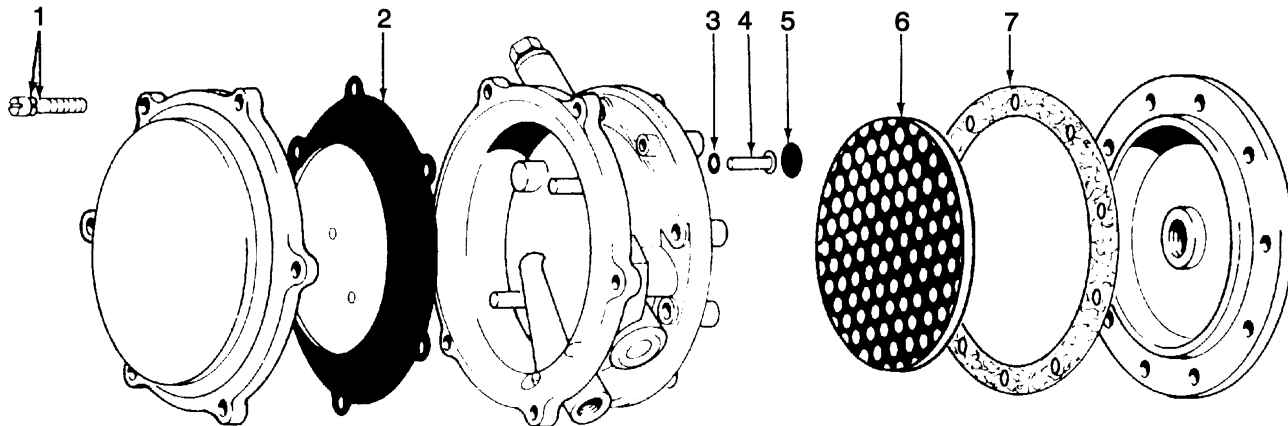
ITEM	PART NO.	DESCRIPTION	QTY
	1327950	Injector	1
1	1337973	Kit-Injector	1
1		O-Ring (Upper Fuel Injection)	2
2		O-Ring (Lower Fuel Injection)	2
3	a	O-Ring	2
4	c	Gasket	1
5	1345993	Gasket (Air Filter)	1
6	b	Gasket	1
7		Diaphragm (Regulator)	1
8		O-Ring (IAC Valve)	1
9	1337974	Kit-Meter	1
9		Fuel Meter	1
10	b	Gasket	1
11	a	O-Ring	2
12	c	Gasket	1
13	1337975	Kit-Fuel Meter Body	1
13	b	Cover	1
14		Block (Fuel Vapor)	1
15	1337976	Kit-Fuel Injector	1
15		Injector	1
16		O-Ring (Lower)	2
17	1337977	Kit-Throttle Body	1
17		Throttle Body Assembly	1
18	1337978	Kit-Sensor	1
18		Throttle Position Sensor	1
19	1337979	Kit-Idle Air Control	1
19		Control Valve (Idle Control)	1
20	1337980	Kit-Screw	1
20	b	Screw	3
21		Screw (Regulator)	4
22		Screw (Fuel Meter)	4
23		Screw (Throttle Mount)	2
24		Screw (Drive Motor Mount)	4
25		Screw (Motor Mount)	4
26	1337981	Kit-Seal	1
26	a	O-Ring	2
27	a	Nut	1
28	c	Gasket	1
29	c	Fitting	1
30	1337982	Kit-Throttle Drive	1
30	1396573	Motor	1
31	1337983	Kit-Throttle Drive	1
31		Throttle Drive	1
32	1337984	Kit-Service Governor	1

FOOTNOTES:

a Fuel Inlet
b Fuel Meter Body

c Fuel Outlet

LOCK-OFF FILTER (FIGURE 3-16) LPG



HP130090

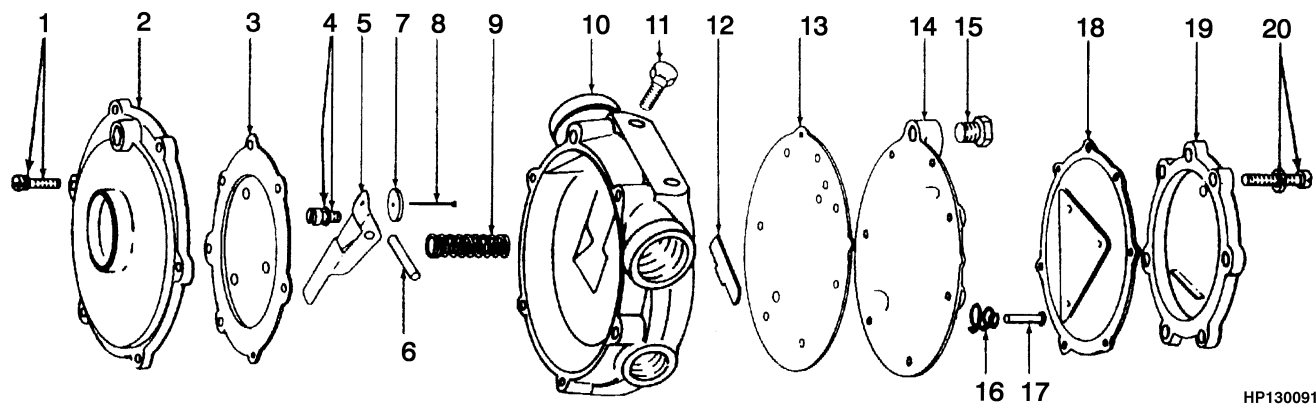
ITEM	PART NO.	DESCRIPTION	QTY
	258321	Kit-Filter and Lock-Off Valve	1
1		Washer	2
1		Screw	8
2		Diaphragm	1
3		O-Ring	1
4		Screw	1
5		Valve Seat	1
6		Filter	1
7		Gasket	1
	263958	Kit-Repair Lpg Converter	1

NOTES

[illegible]

LPG CONVERTER (FIGURE 3-17)
(→ S/N F006D01884)

PARTS SERVICE GRAM	
ITEM	GRAM
196193	EB-3 (E)



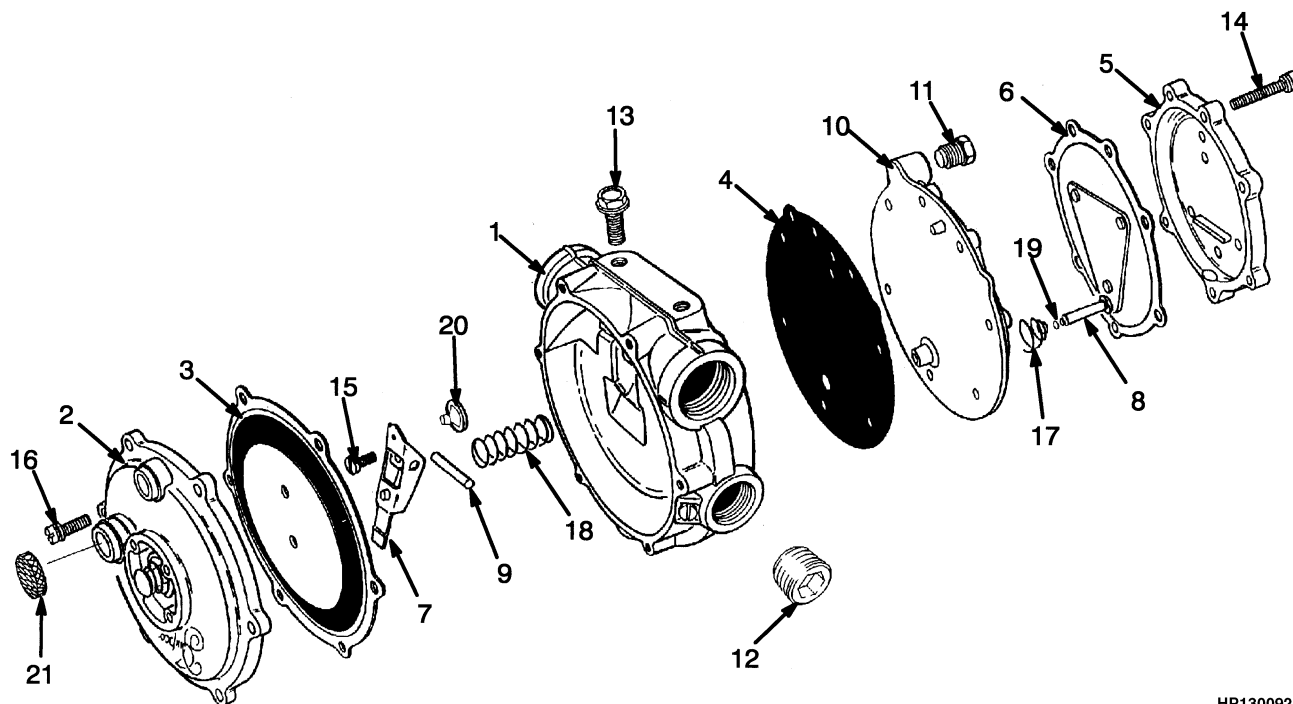
HP130091

LPG CONVERTER
(→ S/N F006D01884)

ITEM	PART NO.	DESCRIPTION	QTY
	196193	Converter	1
1		Capscrew	6
1		Lockwasher	6
2		Cover	1
3		Diaphragm	1
4		Screw	1
4		Lockwasher	1
5	204829	Lever	1
6	204830	Pin	1
7		Seat	1
8		Pin	1
9	204831	Spring	1
10		Body	1
11		Screw	2
11		Lockwasher	2
12		Seat	1
13		Gasket	1
14		Plate	1
15		Plug	1
16	204835	Spring	1
17		Pin	1
18		Diaphragm	1
19		Cover	1
20		Screw	7
20		Lockwasher	7
	204837	Kit-Repair Lpg Converter	1

LPG CONVERTER (FIGURE 3-18) (S/N F006D01885 ↔ S/N F006D04317)

PARTS SERVICE GRAM	
ITEM	GRAM
1369571	EB-3 (E)

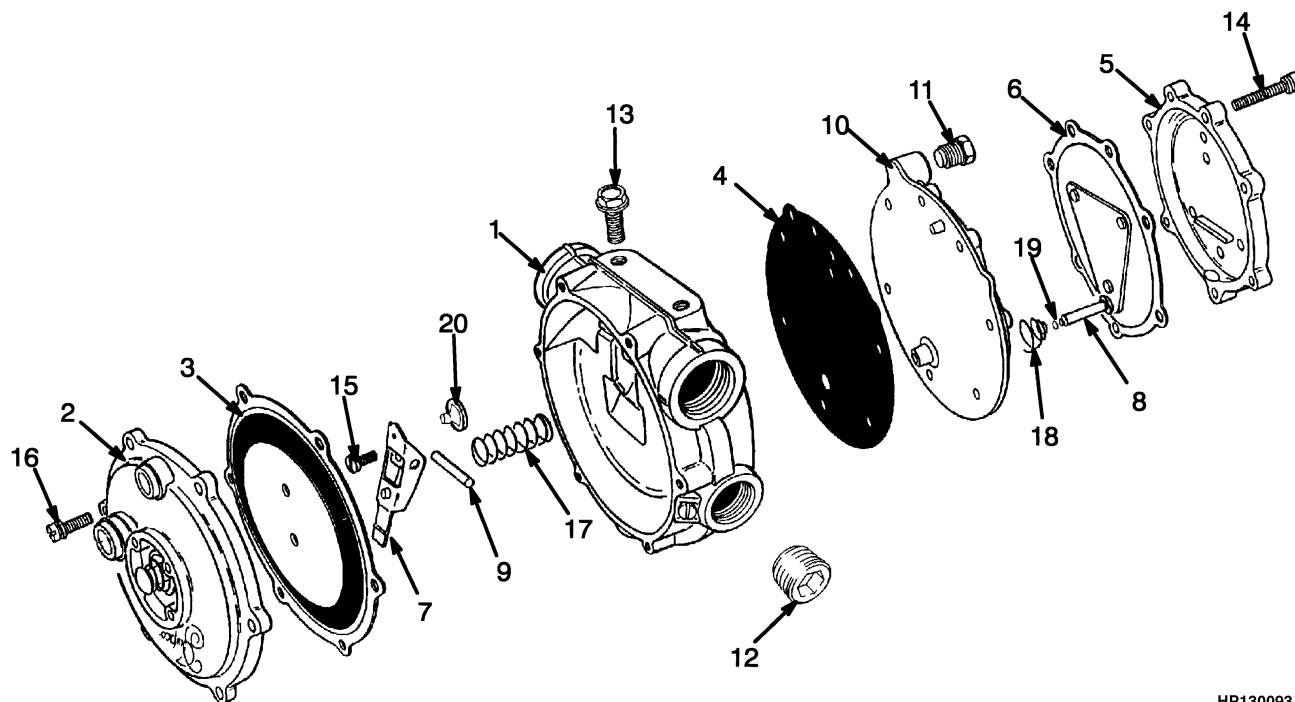


HP130092

LPG CONVERTER
(S/N F006D01885 ↔ S/N F006D04317)

ITEM	PART NO.	DESCRIPTION	QTY
	1369571	Converter	1
1	1375027	Body	1
2		Cover	1
3	1375047	Diaphragm (Secondary)	1
4		Diaphragm (Primary)	1
5	1375037	Cover (Primary)	1
6		Gasket	1
7		Lever (Secondary)	1
8	1376429	Pin	1
9	204830	Pin	1
10	1375029	Plate	1
11	1357749	Plug	1
12	1357707	Plug	1
13	1369065	Kit-Screw	2
14	1450126	Screw	2
15	16719	Screw	1
16	1450126	Screw	2
17	1375030	Spring	1
18	204831	Spring	1
19		Seal	1
20		Seat	1
21	1367597	Screen	1
	1375031	Kit-Repair Lpg Converter	1

LPG CONVERTER (FIGURE 3-19) (S/N F006D04318 →)

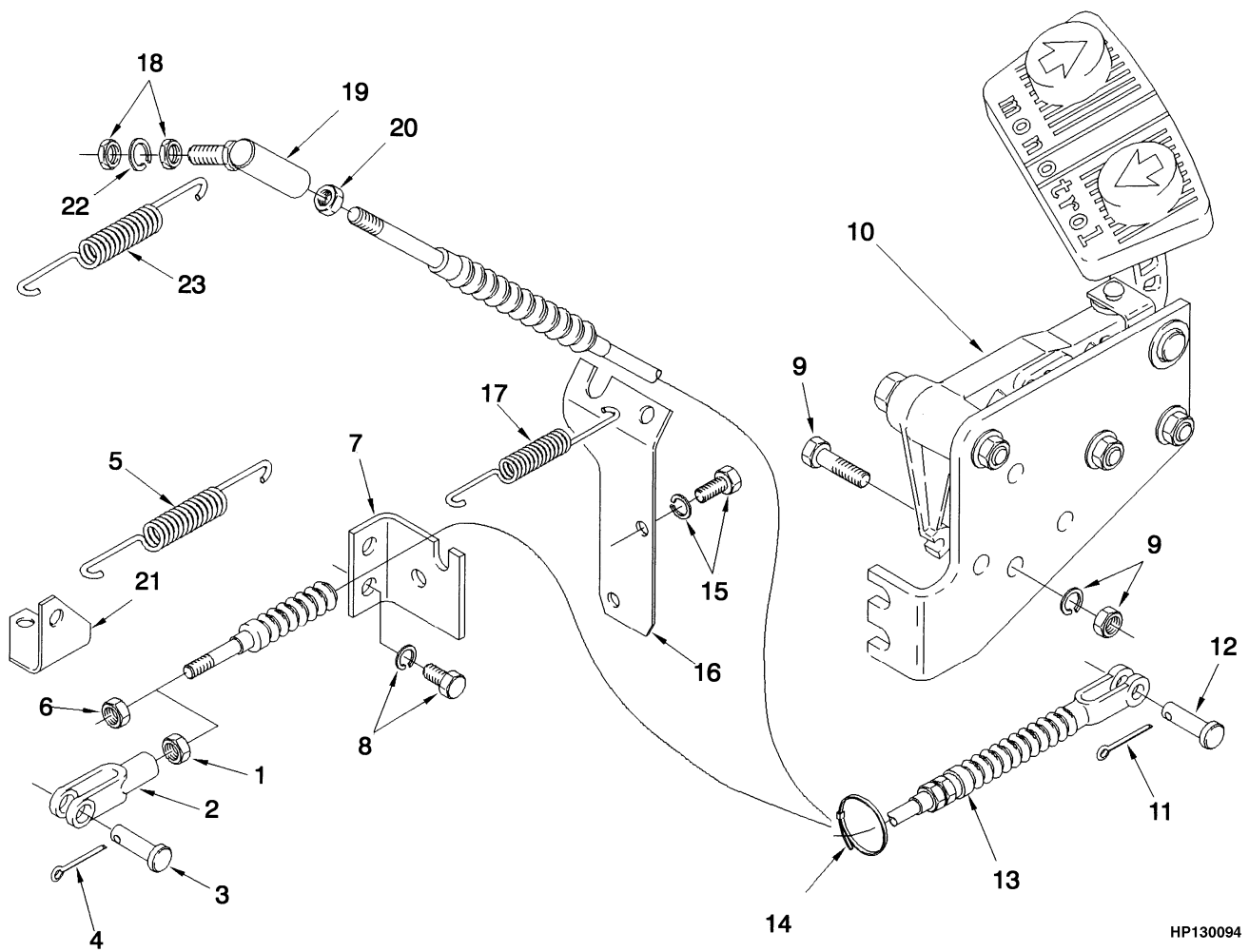


HP130093

LPG CONVERTER
(S/N F006D04318 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1453772	Lpg Converter	1
1	1455310	Body	1
2	1455309	Cover	1
3		Diaphragm (Secondary)	1
4		Diaphragm (Primary)	1
5	1375037	Cover (Primary)	1
6		Gasket	1
7		Lever (Secondary)	1
8		Pin	1
9	204830	Pin	1
10	1375029	Plate	1
11	1357749	Plug	1
12	1357707	Plug	1
13	1369065	Kit-Screw	2
14	1455307	Capscrew	7
15	1455306	Screw	1
16	1450126	Screw	6
17	1455305	Spring	1
18	204831	Spring	1
19		E-Ring	1
20		Seat	1
	1459717	Kit-Repair Lpg Converter	1

THROTTLE LINKAGE (FIGURE 3-20) (→ S/N F006A07082)



HP130094

THROTTLE LINKAGE

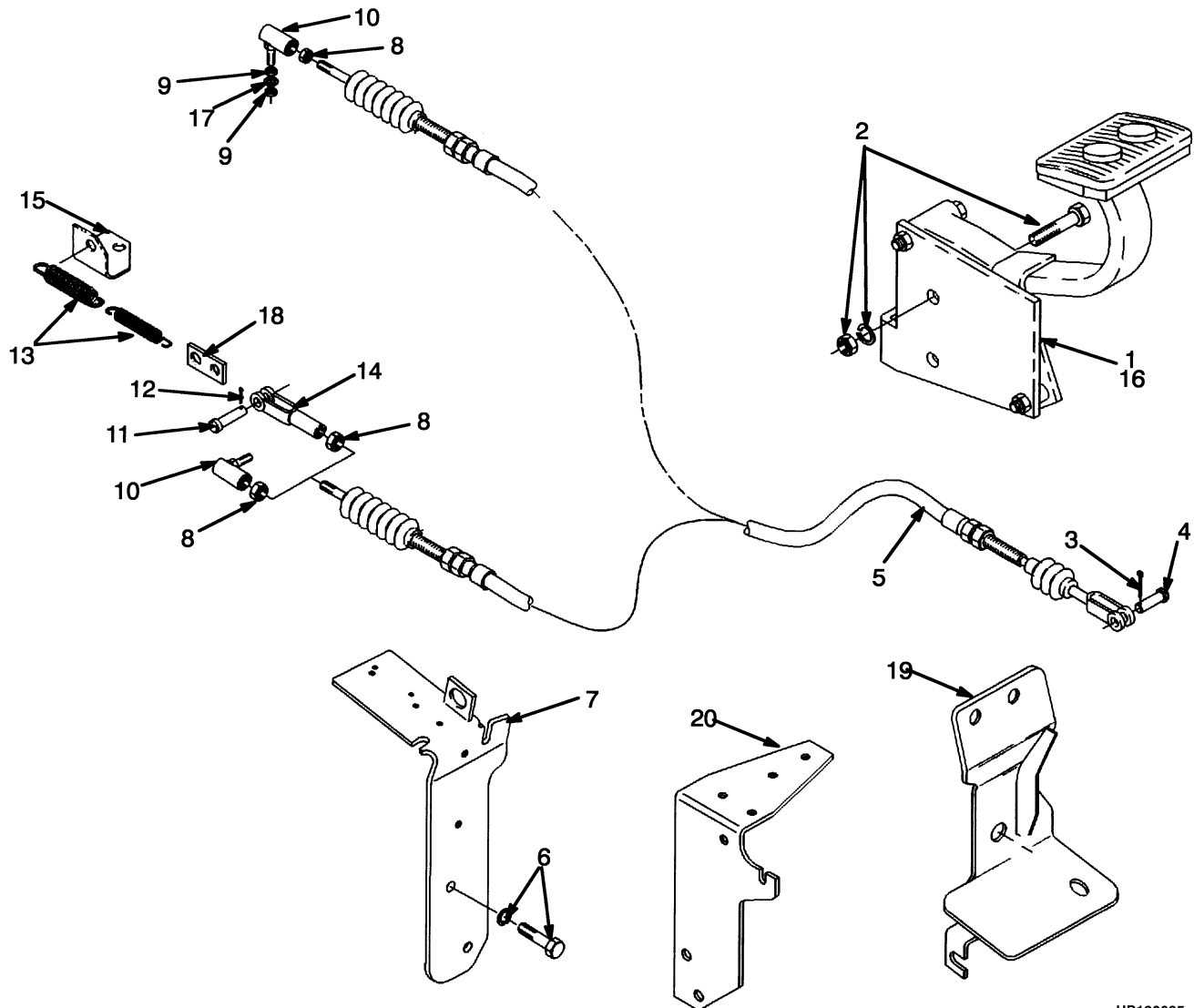
(→ S/N F006A07082)

KEY:**A: Gasoline****B: LPG****C: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	15002	Nut	..	1	..
2	314809	Rod End	..	1	..
3	126	Pin	..	1	1
4	15200	Cotter Pin	..	1	1
5	1300208	Spring	..	1	..
6	15002	Nut	..	..	1
7	c 350036	Bracket	..	..	1
8	bc 15005	Nut	..	..	2
8	ac 16663	Capscrew	..	..	2
8	c 273338	Thread Sealant	..	..	AR
8	c 292681	Lockwasher	..	..	2
9	136692	Nut	2	2	2
9	136985	Capscrew	2	2	2
9	388049				
	292682	Lockwasher	2	2	2
10	352499	Pedal (Accelerator) (☞ Figure 3-22).....	1	1	1
10	353398	Monotrol Pedal (☞ Figure 3-23).....	1	1	1
11	15212	Cotter Pin	1	1	1
12	162836	Pin	1	1	1
13	1337771	Throttle Cable	1	1	1
14	137852	Strap Clamp	1	1	1
15	18535	Capscrew	2	..	..
15	388049				
	292682	Lockwasher	2	..	..
16	352837	Bracket	1	..	..
17	1300208	Spring	1	..	..
18	15024	Nut	2	..	2
19	161252	Ball Joint	1	..	1
20	15002	Nut	1	..	..
21	e 383142	Bracket	..	1	..
22	d 15923	Lockwasher	..	..	1
23	d 1337225	Spring	..	..	1

FOOTNOTES:**a** Engine with Removable Plugs**b** Engine with Studs**c** → S/N F006A03039**d** S/N F006A03040 →**e** T12197KM02 →

THROTTLE LINKAGE (FIGURE 3-21) (S/N F006A07083 →) (S/N F006D01501 →)



HP130095

THROTTLE LINKAGE

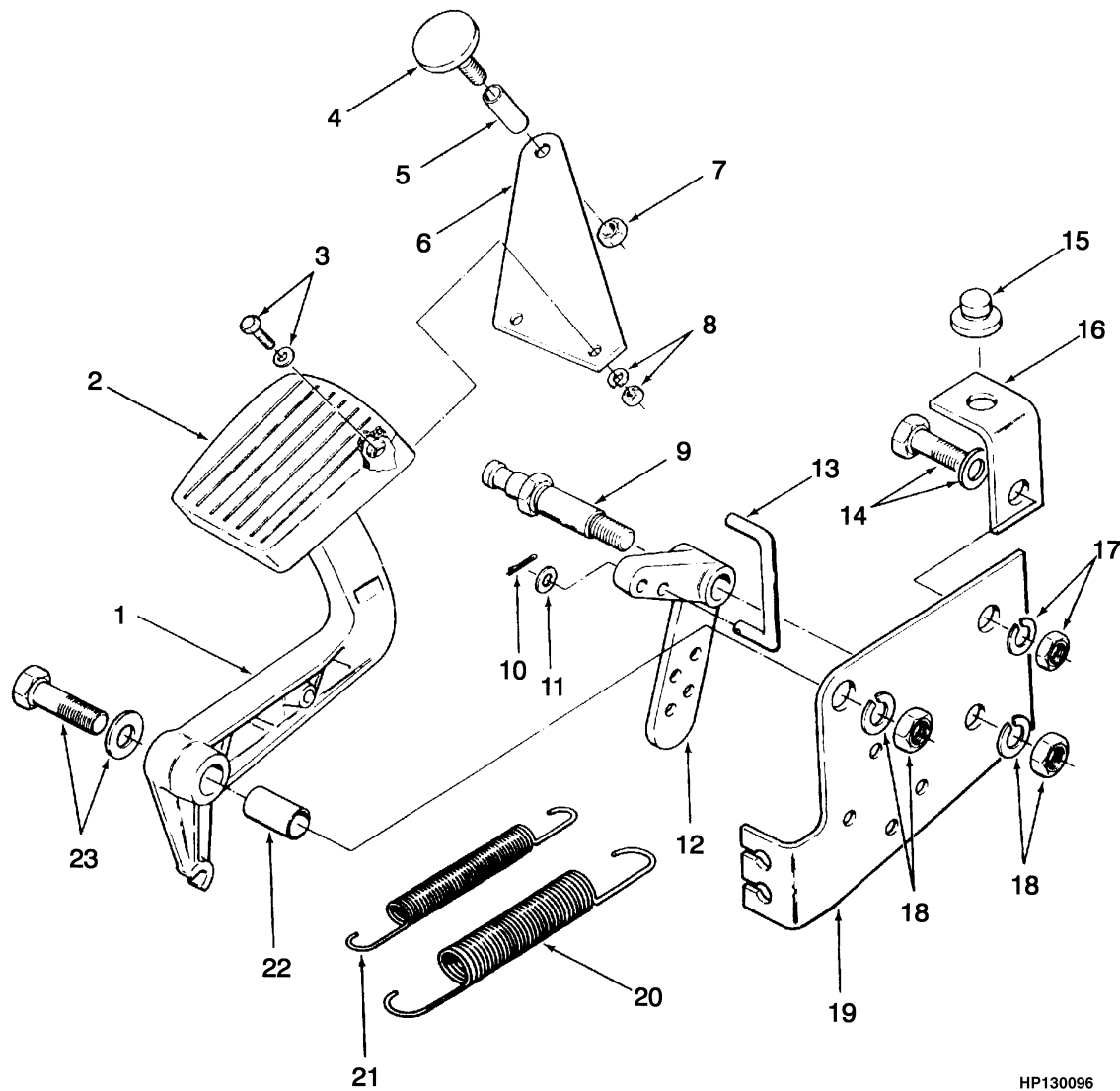
(S/N F006A07083 →) (S/N F006D01501 →)

KEY:**A: Gasoline****B: LPG****C: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	352499	Pedal (Accelerator) (☞Figure 3-22).....	1	1	1
1	353398	Monotrol Pedal (☞Figure 3-23).....	1	1	1
2	136692	Nut	2	2	2
2	136985	Capscrew	2	2	2
2	388049				
	292682	Lockwasher	2	2	2
3	15212	Cotter Pin	1	1	1
4	162836	Pin	1	1	1
5	di 1337771	Throttle Cable	1	1	1
5	e 1383282	Throttle Cable	1	1	1
5	h 1493695	Throttle Cable	1	1	1
6	16598	Capscrew	2	..	..
6	388049				
	292682	Lockwasher	2	..	..
7	c 1336133	Bracket Wldmt	1	..	..
7	g 1461409	Bracket	1	..	..
8	15002	Nut	1	1	2
9	15024	Nut	..	..	2
9	15923	Lockwasher	..	..	1
10	161252	Ball Joint	..	..	1
11	126	Pin	..	1	..
12	15200	Cotter Pin	..	1	..
13	1330272	Spring (Large) (121,7 mm)	..	1	..
13	1330273	Spring (Small) (117,8 mm)	..	1	..
14	314809	Rod End	..	1	..
15	di 1337884	Bracket	..	1	..
16	137852	Strap Clamp	..	..	1
17	15923	Lockwasher	..	..	1
18	di 1345022	Link	..	1	..
18	e 1383250	Link	..	1	..
19	ab 1313835	Bracket (Without Low Emissions)	..	..	1
19	jf 1454335	Bracket (With Low Emissions)	..	..	1
20	352782	Bracket	..	1	..

FOOTNOTES:**a** → S/N F006A10149**b** → S/N F006D04442**c** → S/N F006D05319**d** S/N F006D01501 ↔ S/N F006D02947**e** S/N F006D02948 ↔ S/N F006D06303**f** S/N F006D04443 →**g** S/N F006D05320 →**h** S/N F006D06304 →**i** S/N F006A07083 →**j** S/N F006A10150 →

THROTTLE PEDAL (FIGURE 3-22) OIL CLUTCH AND POWERSHIFT WITH FORWARD/REVERSE LEVER



HP130096

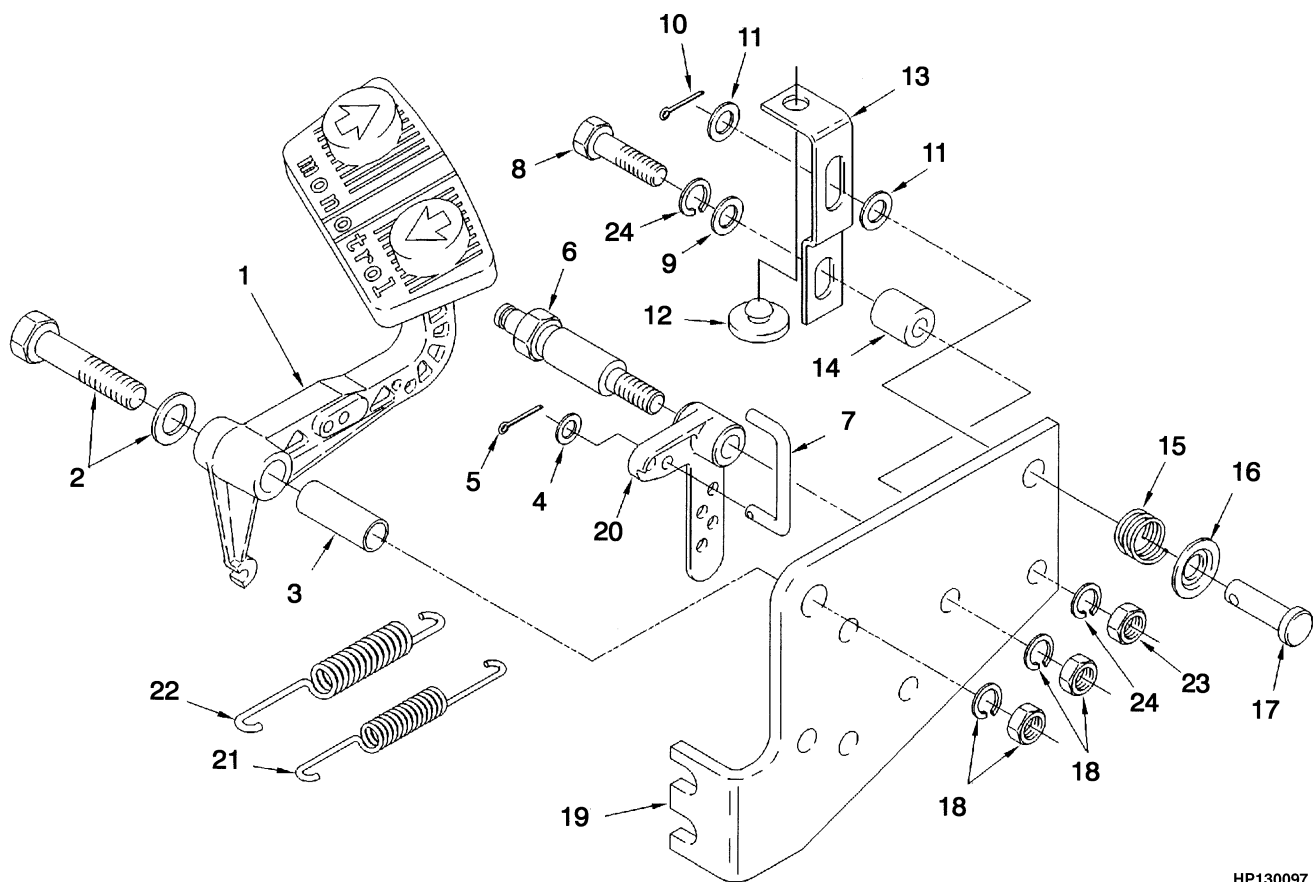
THROTTLE PEDAL

OIL CLUTCH AND POWERSHIFT WITH FORWARD/REVERSE LEVER

ITEM	PART NO.	DESCRIPTION	QTY
1	352499	Pedal (Accelerator)	1
2	352885	Rubber Pad	1
3	a 302248	Capscrew	2
3	a 320155	Washer	2
4	a 118051	Pad	1
5	a 352942	Pad	1
6	a 352944	Mounting Plate	1
7	a 239503	Nut	1
8	a 292668	Nut	2
8	a 292679	Washer	2
9	352485	Shaft	1
10	15200	Cotter Pin	1
11	320156	Washer	1
12	353164	Crank	1
13	353129	Rod	1
14	292514	Capscrew	1
15	353195	Bumper	1
16	353159	Bracket	1
17	388049		
	292682	Lockwasher	1
17	296128	Nut	1
18	136692	Nut	2
18	388049		
	292682	Lockwasher	2
19	352482	Bracket	1
20	353142	Spring	1
21	353143	Spring	1
22	325708	Tube Assy (Pivot)	1
23	292521	Capscrew	1
23	320160	Washer	1

FOOTNOTES:**a** Auxiliary Throttle Pedal

THROTTLE PEDAL (FIGURE 3-23) POWERSHIFT WITH MONOTROL PEDAL

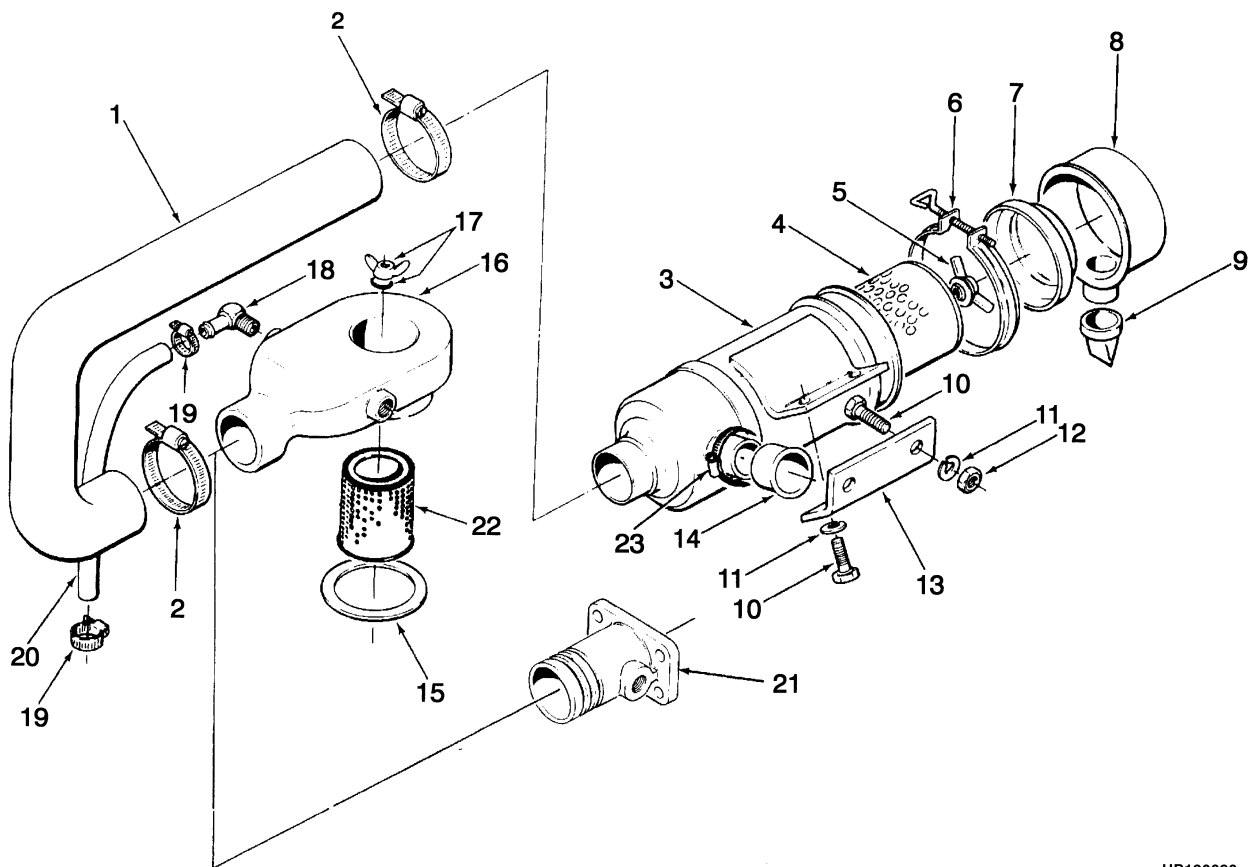


HP130097

THROTTLE PEDAL POWERSHIFT WITH MONOTROL PEDAL

ITEM	PART NO.	DESCRIPTION	QTY
1	353398	Monotrol Pedal (☞ Figure 3-38).....	1
2	292523	Capscrew	1
2	320160	Washer	1
3	353141	Tube Assy (Pivot)	1
4	320156	Washer	1
5	15200	Cotter Pin	1
6	352485	Shaft	1
7	353129	Rod	1
8	287851	Capscrew	1
9	320158	Washer	1
10	15212	Cotter Pin	1
11	320160	Washer	2
12	353195	Bumper	1
13	352950	Bracket	1
14	353453	Mount	1
15	353172	Spring	1
16	353230	Cap	1
17	142	Pin	1
18	136692	Nut	2
18	388049		
	292682	Lockwasher	2
19	352482	Bracket	1
20	353164	Crank	1
21	353142	Spring	1
22	353143	Spring	1
23	239503	Nut	1
24	292681	Lockwasher	2

AIR FILTER (FIGURE 3-24) STANDARD (→ S/N F006A07082)



HP130098

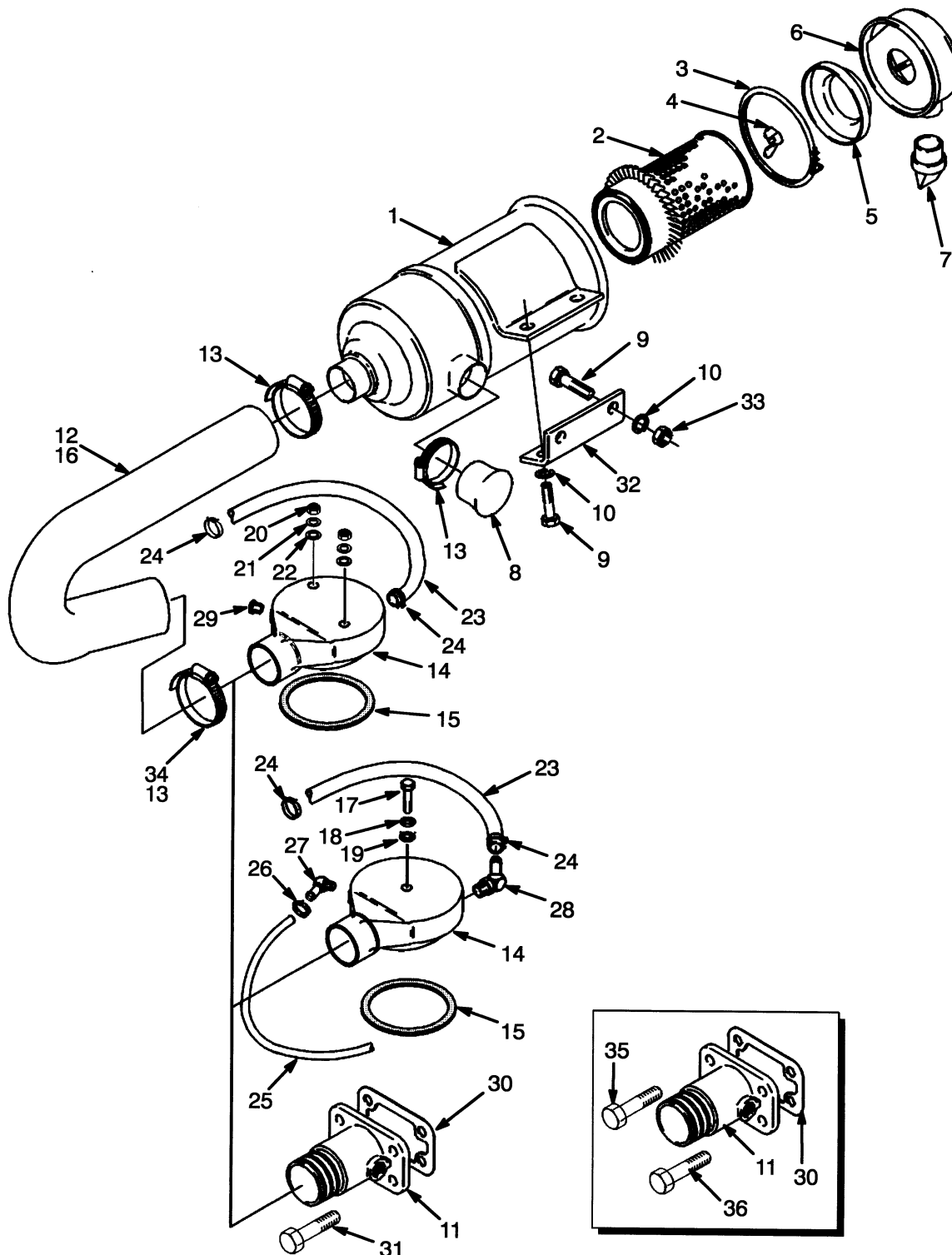
AIR FILTER
STANDARD (→ S/N F006A07082)**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	362409	Hose	..	1
1	362410	Hose	1	..
1	ab 377341	Hose	..	1
2	115696	Hose Clamp	2	2
3	344446	Air Filter	1	1
4	305080	Filter Element	1	1
5	125847	Gasket	1	1
6	290734	Clamp	1	1
7	290735	Baffle	1	1
8	374922	Cup	1	1
9	374923	Valve	1	1
10	287854	Capscrew	4	4
11	388049			
	292682	Lockwasher	4	4
12	136692	Nut	2	2
13	365919	Bracket	1	1
13	ab 377373	Bracket	1	1
14	344445	Boot	1	1
15	1300180	Gasket	1	..
16	370262	Hood	1	..
17	254255	Seal	1	..
17	53138	Nut	1	..
18	175347	Fitting	1	..
19	366473	Clamp	2	..
20	372003	Hose	1	..
21	ab 1302715	Connection-Inlet Manifold	..	1
22	370260	Ring	1	..
23	112989	Hose Clamp	1	1

FOOTNOTES:**a** S/N F006A03040 →**b** S/N F006D01501 →

AIR FILTER (FIGURE 3-25)

STANDARD (S/N F006D01501 →) (S/N F006A07083 →)



HP130099

AIR FILTER**STANDARD (S/N F006D01501 →) (S/N F006A07083 →)****KEY:****A: Gasoline****B: LPG****C: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	344446	Air Filter	1	1	1
2	305080	Filter Element	1	1	1
3	290734	Clamp	1	1	1
4	125847	Gasket	1	1	1
5	290735	Baffle	1	1	1
6	374922	Cup	1	1	1
7	374923	Valve	1	1	1
8	344445	Boot	1	1	1
9	287854	Capscrew	4	4	4
10	388049				
	292682	Lockwasher	4	4	4
11	b 1302715	Connection-Inlet Manifold	..	..	1
11	aeg 1453526	Thermostat Housing	..	..	1
12	377341	Hose	..	..	1
13	2033817	Clamp	3	3	2
14	1307266	Adapter	..	1	..
14	1330323	Hood	1	..	..
15	1345993	Gasket	..	1	..
15	1345993	Gasket	1	..	..
16	1330316	Hose	1	1	..
17	18465	Capscrew	..	1	..
18	18500	Washer	..	1	..
19	109919	Seal	..	1	..
20	15055	Nut	2	..	..
21	320157	Washer	2	..	..
22	145831	Seal	2	..	..
23	85777	Hose	1	1	..
24	353198	Clamp	2	2	..
25	c 1330396	Hose	..	1	..
25	df 1333807	Hose	..	1	..
26	369815	Clamp	..	2	..
27	df 17343	Fitting	..	1	..
27	c 175347	Fitting	..	1	..
28	df 17343	Fitting	..	1	..
28	c 175347	Fitting	..	1	..
29	14349	Fitting (Pipe Plug)	1	1	1
30	b 1345794	Gasket	..	..	1
30	aeg 1345795	Gasket	..	..	1
31	b 1306358	Screw	..	..	4
32	377373	Bracket	1	1	1
33	136692	Nut	2	2	2
34	b 115696	Hose Clamp	..	..	1
35	aeg 136692	Nut	..	..	2
36	aeg 136692	Nut	..	..	2

FOOTNOTES:

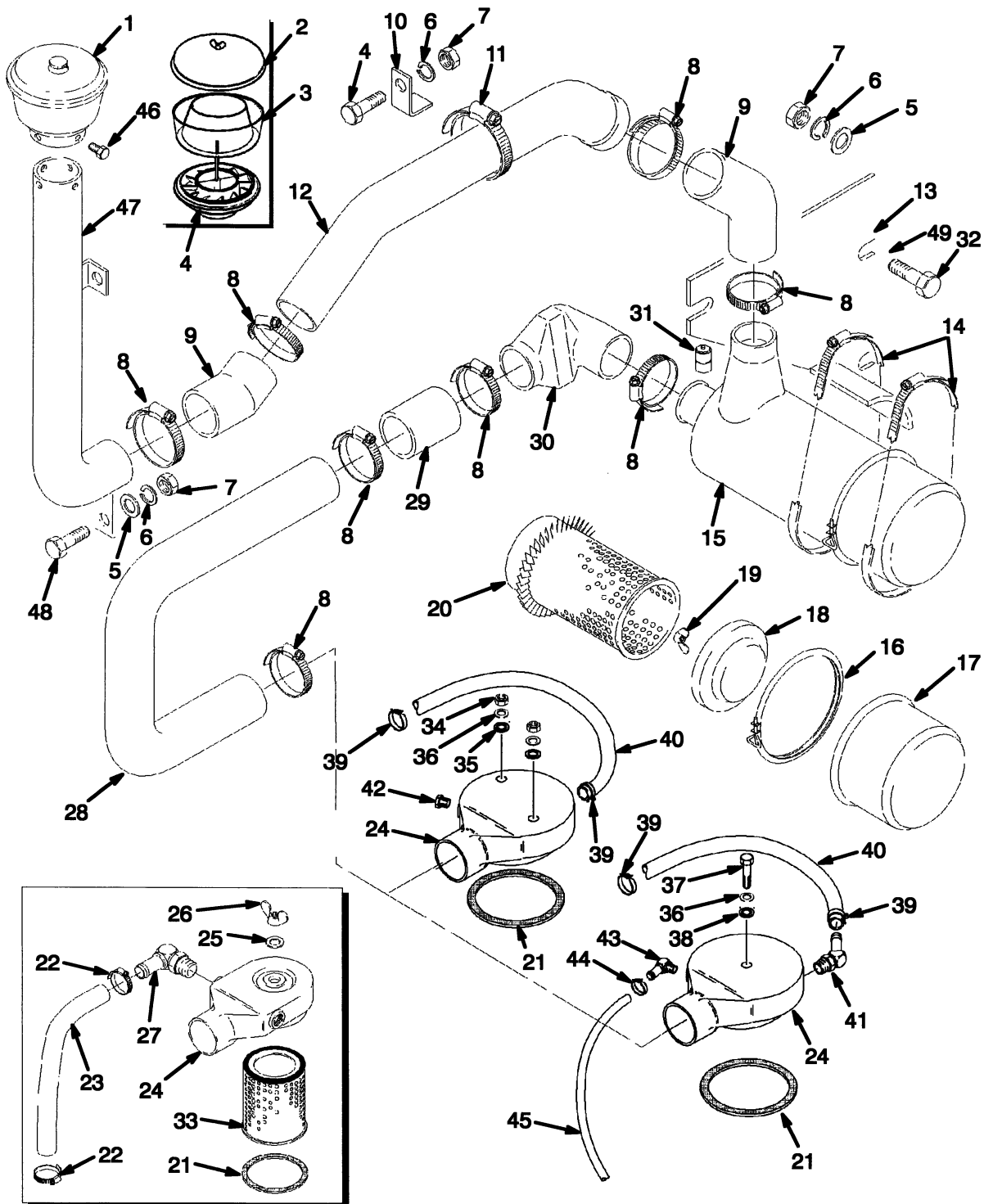
- a** With Low Emissions
- b** Without Low Emissions
- c** → S/N F006A07102
- d** S/N F006A07103 →

- e** S/N F006A10150 →
- f** S/N F006D01501 →
- g** S/N F006D04443 →

NOTES

[illegible]

AIR FILTER (FIGURE 3-26) HEAVY DUTY — GASOLINE AND LPG (→ S/N F006D04442W)



HP130100

AIR FILTER

HEAVY DUTY – GASOLINE AND LPG (→ S/N F006D04442W)

KEY:**A: Gasoline****B: LPG**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	291974	Pre-Cleaner	1	1
2	328753	Cover	1	1
3	328754	Body	1	1
4	1313904	Sleeve	1	1
5	320159	Washer	5	5
6	388049			
	292682	Lockwasher	6	6
7	136692	Nut	6	6
8	115696	Hose Clamp	8	8
9	159787	Hose	2	2
10	379966	Bracket	1	1
11	2033817	Clamp	1	1
12	379957	Tube	1	1
13	379966	Bracket	1	1
13	a 379968	Bracket	1	1
14	1301582	Hose Clamp	2	2
15	321109	Air Filter	1	1
16	290734	Clamp	1	1
17	321916	Cup	1	1
18	290735	Baffle	1	1
19	125847	Gasket	1	1
20	290732	Filter Element (Optional)	1	1
20	336567	Filter Element	1	1
21	b 1300180	Gasket	1	1
21	cd 1345993	Gasket	1	..
21	cd 1345993	Gasket	..	1
22	b 366473	Clamp	2	2
23	b 372003	Hose	1	1
24	b 370262	Hood	..	1
24	cd 1330323	Hood	1	..
24	cd 1307266	Adapter	1	1
25	b 254255	Seal	1	1
26	b 53138	Nut	1	1
27	b 175347	Fitting	1	1
28	cd 1330317	Hose	1	1
28	b 379958	Hose	1	1
29	379972	Tube	1	1
30	317367	Boot	1	1
31	295440	Air Restriction Indicator	1	1
32	136985	Capscrew	3	3
33	b 370260	Ring	1	1
34	cd 15055	Nut	2	..
35	cd 145831	Seal	2	..
36	cd 18515	Washer	..	1
36	cd 18515	Washer	2	..

AIR FILTER

HEAVY DUTY – GASOLINE AND LPG (→ S/N F006D04442W)

KEY:
A: Gasoline

B: LPG

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
37	cd 18465	Capscrew	..	1
38	cd 109919	Seal	..	1
39	cd 353198	Clamp	2	2
40	cd 85777	Hose	1	1
41	cd 16694	Fitting	..	1
42	cd 14349	Fitting (Pipe Plug)	..	1
43	cd 175347	Fitting	..	1
44	cd 369815	Clamp	..	2
45	cd 1330396	Hose	..	1
46	287854	Capscrew	3	3
47	379962	Tube	1	1

FOOTNOTES:
a → S/N F006A03039

b → S/N F006A07082

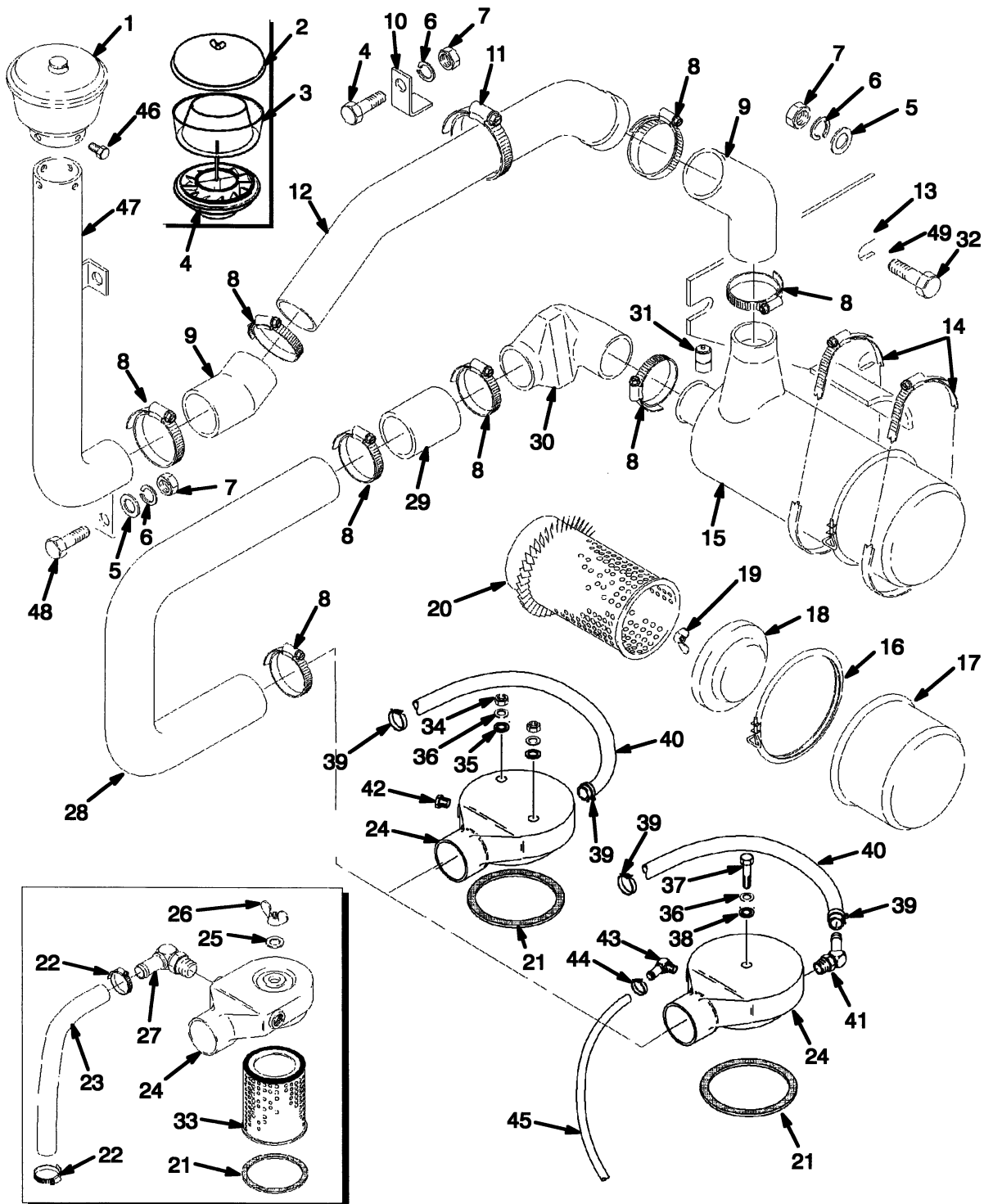
c S/N F006A07083 →

d S/N F006D01501 →

NOTES

[illegible]

AIR FILTER (FIGURE 3-27) HEAVY DUTY — GASOLINE AND LPG (S/N F006D04443W →)



HP130100

AIR FILTER

HEAVY DUTY – GASOLINE AND LPG (S/N F006D04443W →)

ITEM	PART NO.	DESCRIPTION	QTY
1	1301167	Pre-Cleaner	1
2	1374205	Cover	1
3	1374206	Body	1
4	1374207	Sleeve	1
5	320159	Washer	5
6	388049		
	292682	Lockwasher	6
7	136692	Nut	6
8	115696	Hose Clamp	7
9	159787	Hose	2
10	379966	Bracket	1
11	2033817	Clamp	1
12	379957	Tube	1
13	379968	Bracket	1
14	1301582	Hose Clamp	2
15	321109	Air Filter	1
16	290734	Clamp	1
17	321916	Cup	1
18	290735	Baffle	1
19	125847	Gasket	1
20	290732	Filter Element (Outer) (Primary)	1
20	336567	Filter Element	1
20	379996	Filter Element (Inner) (Types GS and LPS)	1
21	a 1345993	Gasket	1
21	b 1345993	Gasket	1
22	c 366473	Clamp	2
23	c 372003	Hose	1
24	b 1307266	Adapter	1
24	a 1330323	Hood	1
25	c 254255	Seal	1
26	c 53138	Nut	1
27	c 175347	Fitting	1
28	1330317	Hose	1
29	379972	Tube	1
30	317367	Boot	1
31	295440	Air Restriction Indicator	1
32	136985	Capscrew	3
33	c 370260	Ring	1
34	a 15055	Nut	2
35	a 145831	Seal	2
36	b 18515	Washer	1
36	a 18515	Washer	2
37	b 18465	Capscrew	1
38	b 109919	Seal	1
39	353198	Clamp	2
40	85777	Hose	1
41	b 16694	Fitting	1
42	a 14349	Fitting (Pipe Plug)	1
43	b 175347	Fitting	1
44	b 369815	Clamp	2

AIR FILTER
HEAVY DUTY – GASOLINE AND LPG (S/N F006D04443W →)

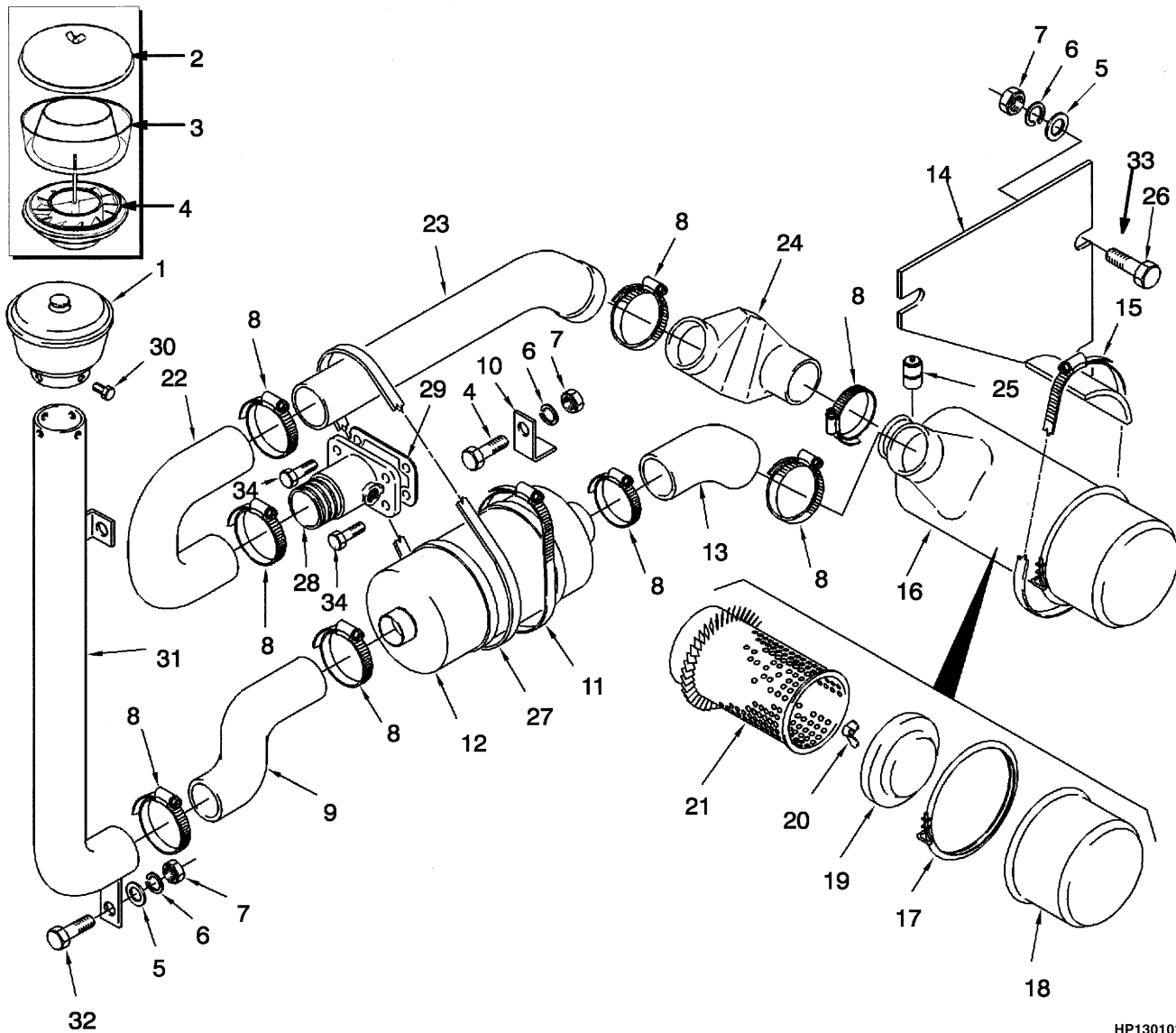
ITEM	PART NO.	DESCRIPTION	QTY
45	b 1330396	Hose	1
46	1391771 134102	Screw	1
47	1456523	Tube Assy	1
48	287854	Capscrew	3
49	15176	Washer	3

FOOTNOTES:**a** Gasoline**b** LPG**c** → S/N F006A07082

NOTES

[illegible]

AIR FILTER (FIGURE 3-28) HEAVY DUTY — DIESEL



HP130101

**AIR FILTER
HEAVY DUTY – DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	g 1301167	Pre-Cleaner	1
1	d 291974	Pre-Cleaner	1
2	d 1374205	Cover	1
2	g 328753	Cover	1
3	d 1374206	Body	1
3	g 328754	Body	1
4	g 1313904	Sleeve	1
4	d 1374207	Sleeve	1
5	320159	Washer	5
6	388049		
	292682	Lockwasher	6
7	136692	Nut	6
8	2033817	Clamp	8
9	ef 377348	Hose	1
9	c 379959	Hose	1
10	ef 377355	Bracket	1
10	c 379966	Bracket	1
11	227220	Clamp	1
12	321108	Silencer	1
13	ef 377347	Hose	1
13	c 379960	Hose	1
14	379968	Bracket	1
15	1301582	Hose Clamp	2
16	321109	Air Filter	1
17	290734	Clamp	1
18	321916	Cup	1
19	290735	Baffle	1
20	125847	Gasket	1
21	379996	Filter Element (Inner) (Type DS)	1
22	ef 377349	Hose	1
22	c 379961	Hose	1
23	ef 377388	Tube	1
23	c 379972	Tube	1
24	317367	Boot	1
25	295440	Air Restriction Indicator	1
26	136985	Capscrew	3
27	ef 273775	Strap Clamp	1
28	bef 1302715	Connection-Inlet Manifold	1
28	ag 1453526	Thermostat Housing	1
29	b 1345794	Gasket	1
29	ag 1345795	Gasket	1
30	b 1306358	Screw	4
31	g 1456523	Tube Assy	1
31	d 379962	Tube	1
32	287854	Capscrew	3
33	15176	Washer	3
34	ag 293614	Capscrew	4

FOOTNOTES:

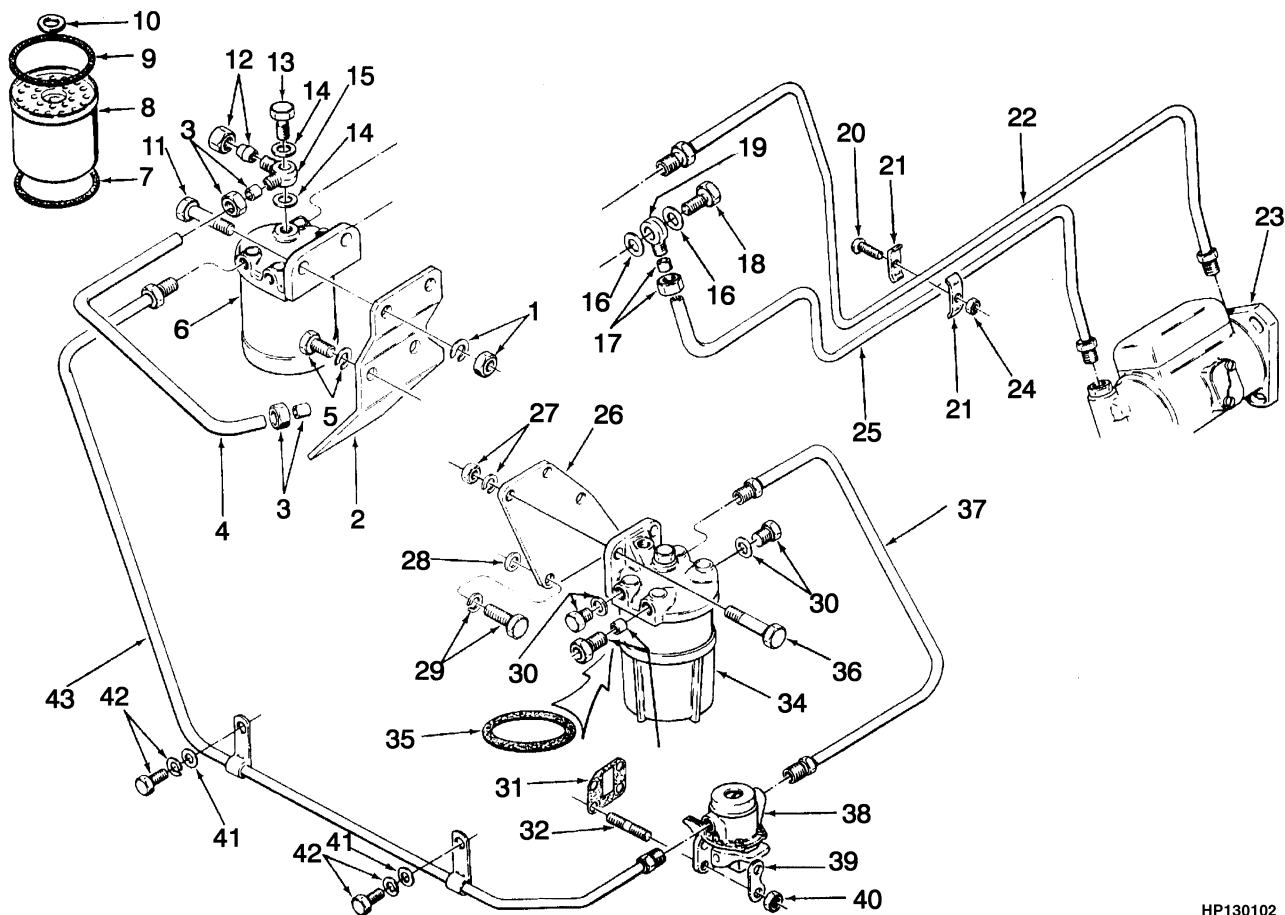
- a** With Low Emissions
- b** Without Low Emissions
- c** → S/N F006A03039
- d** → S/N F006D04442

- e** S/N F006A03040 →
- f** S/N F006D01501 →
- g** S/N F006D04443 →

NOTES

[illegible]

FUEL LINES (FIGURE 3-29) DIESEL (→ S/N F006A03039)



HP130102

FUEL LINES
DIESEL (→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
	387459	Engine Assy-Diesel	1
1	15006	Nut	2
1	15156	Lockwasher	2
2	377993	Bracket	1
3	152608	Olive	2
3	152609	Nut	2
4	377996	Pipe	1
5	15156	Lockwasher	2
5	16696	Capscrew	2
6	173944	Fuel Filter	1
7	292781	Seal (Bottom)	1
8		Element	1
9	292782	Seal (Top)	1
10	124239	Seal	1
11	234964	Bolt	2
12	16114	Fitting	1
12	16118	Fitting	1
13	983346	Bolt	1
14	983348	Washer	2
15	982234	Fitting	1
16	981260	Washer	2
17	167507	Nut	1
17	167508	Olive	1
18	982951	Bolt	1
19	133590	Fitting	1
20	16733	Screw	1
21	161537	Clip	2
22	250713	Pipe	1
23	377947	Injection Pump (☞ Figure 3-32).....	1
24	132401	Locknut	1
25	271321	Pipe	1
26	252783	Bracket	1
27	15006	Nut	2
27	15156	Lockwasher	2
28	152605	Spacer	3
29	15156	Lockwasher	2
29	16634	Capscrew	2
30	173941	Plug	2
30	981260	Washer	2
31	1345754	Gasket	1
32	377992	Stud	4
33	16114	Fitting	1
33	985222	Nut	1
34	271047	Water Separator	1
35	292781	Seal (Bottom)	1
35	292782	Seal (Top)	1
36	173934	Capscrew	2
37	250710	Pipe	1
38	bc 1380760	Lift Pump (☞ Figure 3-35).....	1
38	a 229879	Fuel Pump (☞ Figure 3-35).....	1

FUEL LINES DIESEL (→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
39	273324	Plate	2
40	984383	Nut	4
41	15134	Washer	2
42	15156	Lockwasher	2
42	16634	Capscrew	2
43	377994	Pipe	1
	124217	Fuel Filter	1
	372727	Kit-Gasket	1

FOOTNOTES:

a → S/N F006A03039
b S/N F006A03040 →

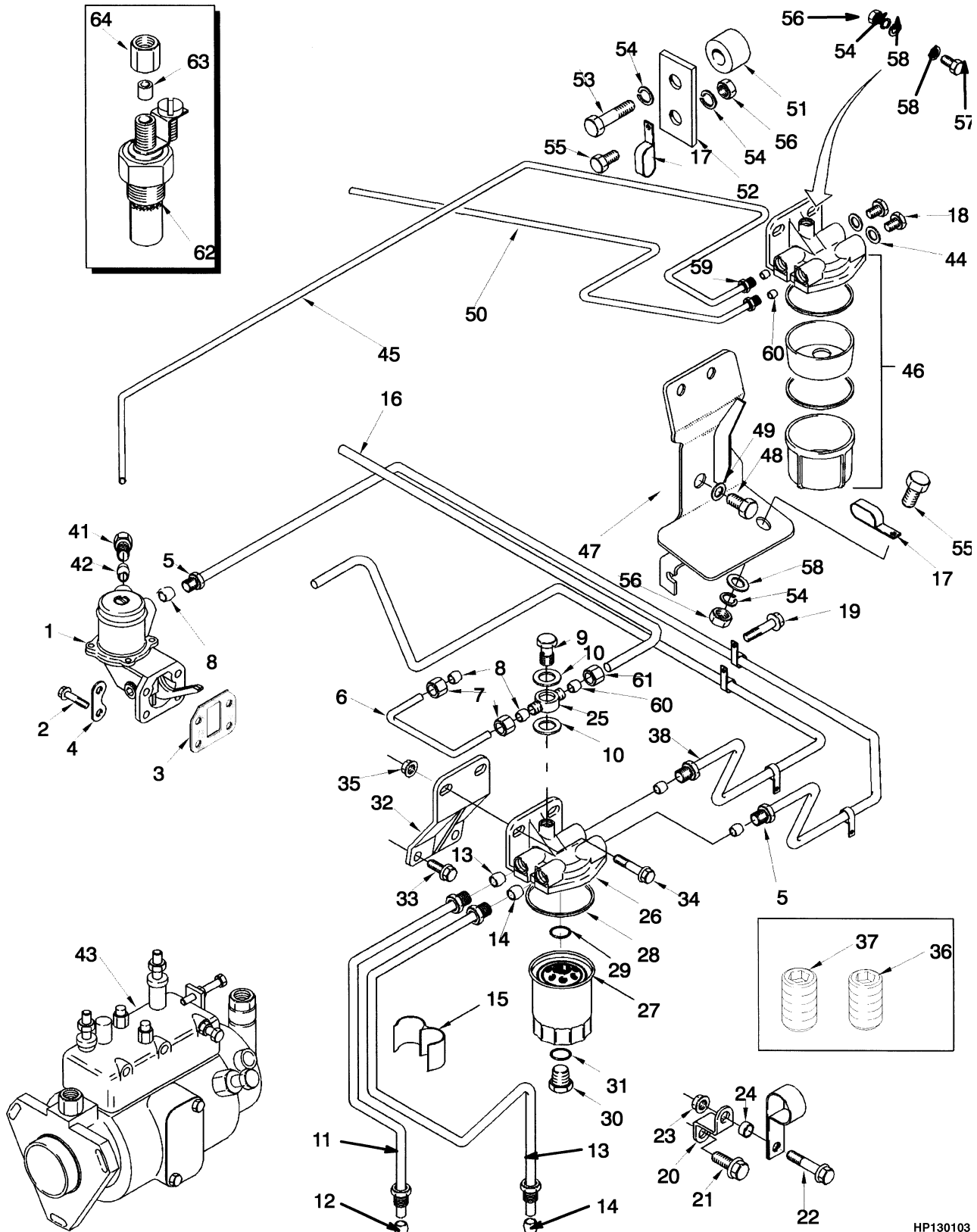
c S/N F006D01501 →

NOTES

[illegible]

FUEL LINES (FIGURE 3-30)

DIESEL (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)



HP130103

FUEL LINES**DIESEL (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)**

ITEM	PART NO.	DESCRIPTION	QTY
	377323	Engine Assy-Diesel	1
1	ef 1380760	Lift Pump (☞ Figure 3-35).....	1
1	c 229879	Fuel Pump (☞ Figure 3-35).....	1
2	1307894	Screw	4
3	1382562	Gasket	1
4	273324	Plate	2
5	1307919	Pipe	1
5	145587	Clip	1
5	158187	Olive	2
5	271320	Clip	1
6	1307920	Pipe	1
7	152609	Nut	2
8	152608	Olive	2
9	983346	Bolt	1
10	983348	Washer	2
11	1307889	Pipe	1
12	158187	Olive	2
13	1307921	Pipe	1
14	158187	Olive	2
15	1458313	Clip	1
16	ag 1454144	Tube	1
16	ah 1467568	Tube	1
16	bd 377374	Tube	1
17	191828	Clamp	3
18	173941	Plug	2
19	386459	Screw	1
20	1308000	Bracket	1
21	1307883	Screw	1
22	1308001	Screw	1
23	1307884		
	1514429	Nut	1
24	1308002	Washer	1
25	1308003	Fitting	1
26	1306345	Fuel Filter	1
26	1474825	Filter Head	1
27		Element	1
28		Seal	1
29		Seal	1
30	1308005	Plug	1
31	1308006	Washer	1
32	1308004	Bracket	1
33	1306371	Screw	2
34	1307913	Screw	2
35	1307891	Nut	2
36	150879	Fitting	1
37	15962	Fitting	1
38	1315753	Pipe	1
39	152609	Nut	1
40	152608	Olive	1
41	16100	Fitting	1

FUEL LINES

DIESEL (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)

ITEM	PART NO.	DESCRIPTION	QTY
42	16177	Fitting	1
43	1498132	Injection Pump (☞ Figure 3-33).....	1
44	981260	Washer	2
45	1458426	Tube	1
46	271047	Water Separator	1
46	292781	Seal (Bottom)	1
46	292782	Seal (Top)	1
47	bd 1313835	Bracket	1
47	ag 1454335	Bracket	1
48	287854	Capscrew	2
49	388049		
	292682	Lockwasher	2
50	377378	Tube	1
51	381879	Spacer	1
52	381880	Bracket	1
53	132861	Capscrew	1
54	292681	Lockwasher	5
55	136681	Capscrew	2
56	239503	Nut	4
57	176640	Bolt	2
58	320157	Washer	5
59	985222	Nut	3
60	16114	Fitting	3
61	16118	Fitting	4
62	245885	Glow Plug (Intake)	1
63	152608	Olive	1
64	152609	Nut	1
	1306331	Fuel Filter	1
	1371723	Kit-Gasket	1

FOOTNOTES:

a With Low Emissions
b Without Low Emissions
c → S/N F006A03039
d → S/N F006D04442

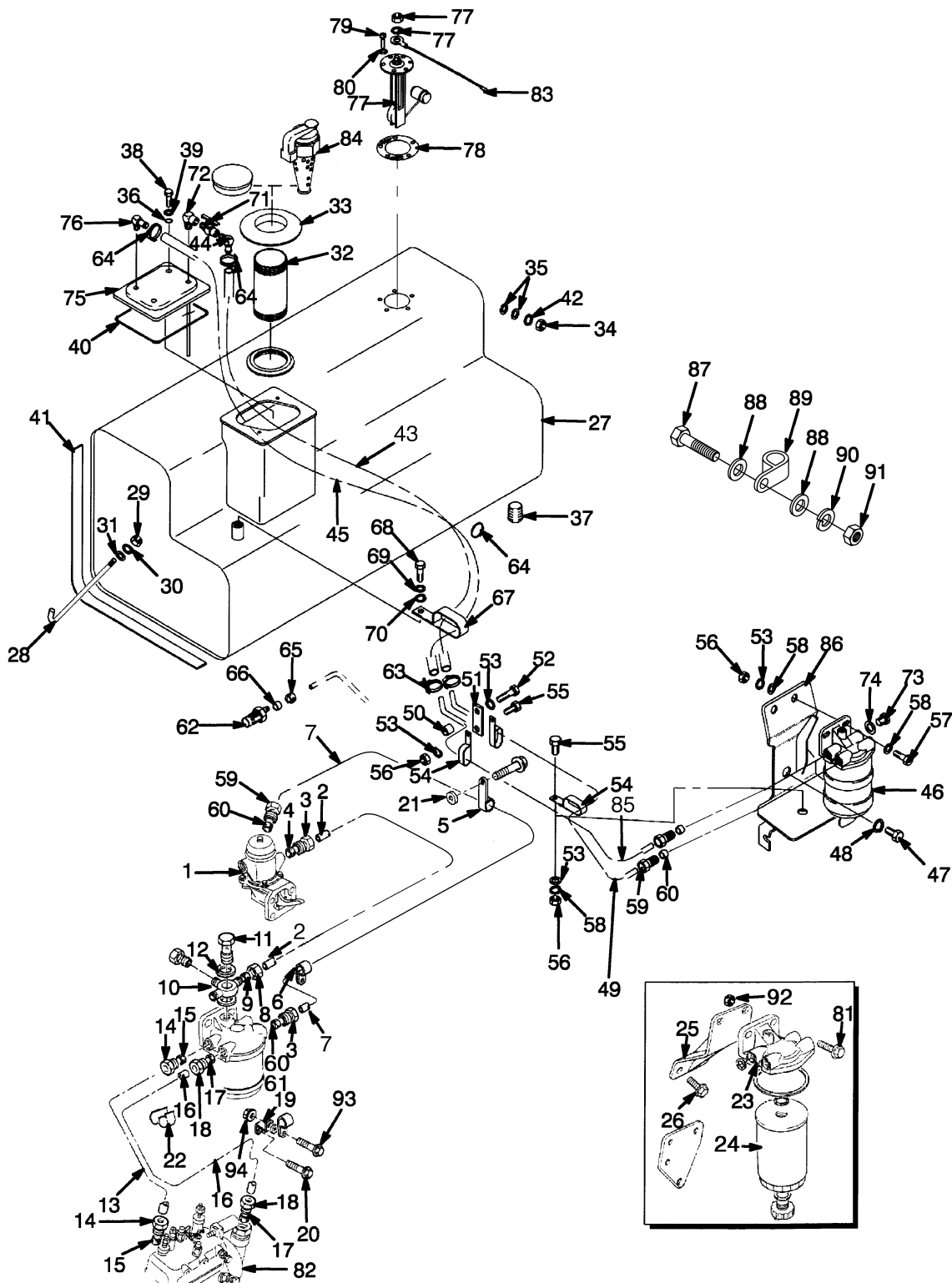
e S/N F006A03040 →
f S/N F006D01501 →
g S/N F006D04443 →
h S/N F006D05493W →

NOTES

[illegible]

FUEL INJECTION (FIGURE 3-31)

LOW PRESSURE — DIESEL WITH LOW EMISSIONS (S/N F006D04443 →)



YP130181

FUEL INJECTION

LOW PRESSURE – DIESEL WITH LOW EMISSIONS (S/N F006D04443 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel	1
1	1456338	Lift Pump (☞ Figure 3-36).....	1
2	1456517	Tube Assy (Fuel)	1
3	16100	Fitting	2
4	167023	Sleeve	2
5	1456520	Clip	1
6	1456521	Clip	1
7	1456519	Pipe	1
8	152609	Nut	2
9	152608	Olive	2
10	1451770	Fitting	1
11	1456522	Bolt	1
12	1456524	Washer	2
13	1456527	Pipe	1
14	16100	Fitting	2
15	167023	Sleeve	2
16	1456525	Pipe	1
17	16100	Fitting	2
18	167023	Sleeve	2
19	1308000	Bracket	1
20	1307883	Screw	1
21	1308002	Washer	1
22	1456528	Clip	1
23	1306345	Fuel Filter	1
23	1474825	Filter Head	1
24	1306331	Fuel Filter (Includes Plug and Washer)	1
25	1308004	Bracket	1
26	1306371	Screw	2
27	1327973	Fuel Tank	1
28	293048	Link	1
29	15004	Nut	1
30	2041014	Washer	1
31	15154	Lockwasher	1
32	344429	Tube	1
33	270770	Grommet	1
34	239503	Nut	2
35	292681	Lockwasher	2
36	320157	Washer	2
37	15962	Fitting	1
38	329067	Screw	2
39	353000	O-Ring	2
40	353106	Seal (Square Ring)	1
41	895411	Seal	AR
42	1334790	Washer	AR
43	1458426	Tube	1
44	17215	Fitting	1
45	387326	Hose	2
46	271047	Water Separator	1
47	287854	Capscrew	2
48	388049	Lockwasher	2

FUEL INJECTION

LOW PRESSURE – DIESEL WITH LOW EMISSIONS (S/N F006D04443 →)

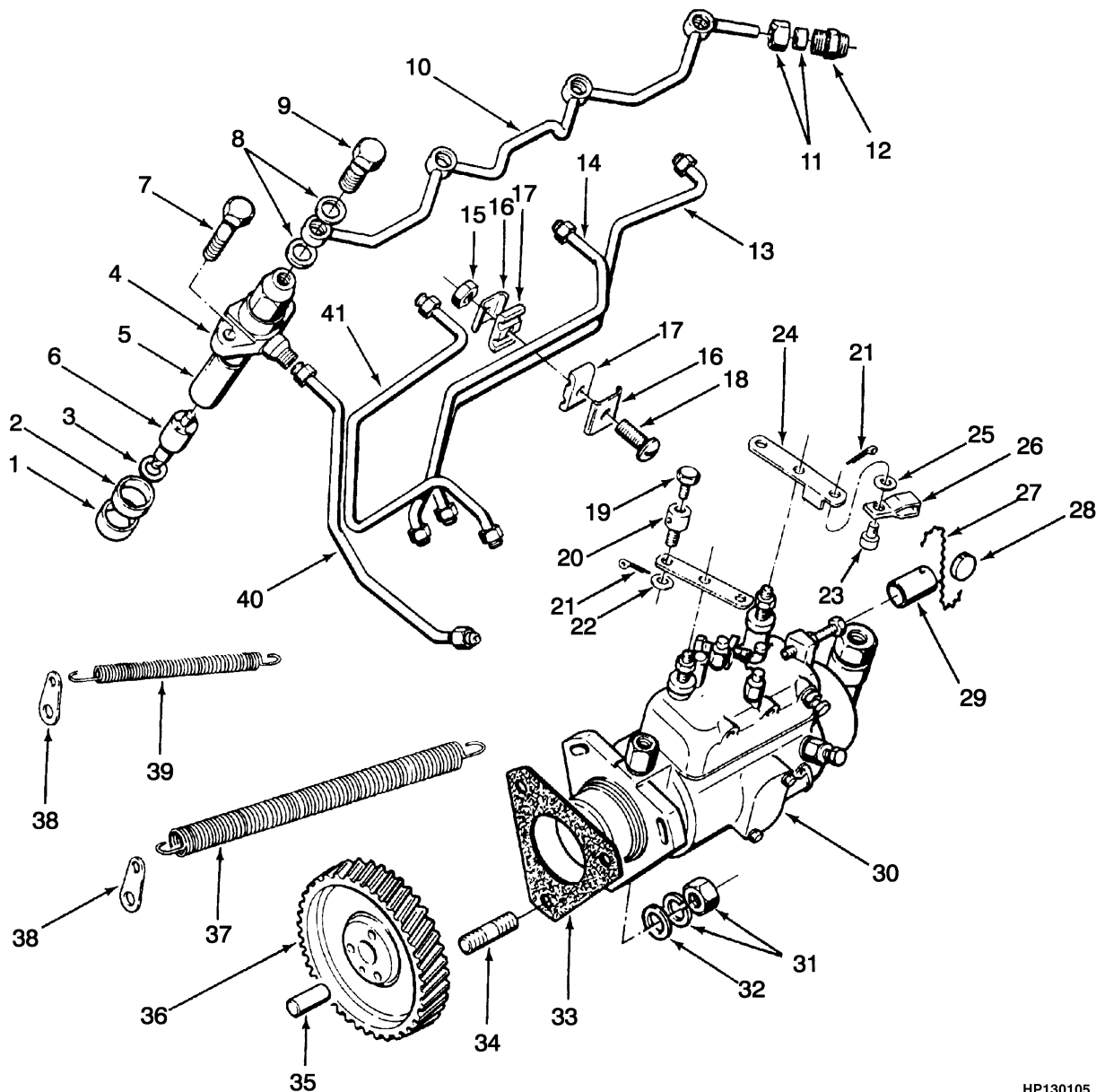
ITEM	PART NO.	DESCRIPTION	QTY
	292682		
49	377378	Tube	1
50	381879	Spacer	1
51	381880	Bracket	1
52	132861	Capscrew	1
53	292681	Lockwasher	5
54	191828	Clamp	3
55	136681	Capscrew	2
56	239503	Nut	4
57	176640	Bolt	2
58	320157	Washer	5
59	985222	Nut	1
60	16114	Fitting	2
61	16118	Fitting	1
62	245885	Glow Plug (Intake)	1
63	2033612	Strap Clamp	2
64	168718	Clamp	4
65	152609	Nut	1
66	152608	Olive	1
67	176910	Clamp	1
68	18496	Capscrew	1
69	18515	Washer	1
70	15155	Lockwasher	1
71	16190	Drain Valve (Shutoff)	1
72	17736	Fitting	1
73	173941	Plug	2
74	981260	Washer	2
75	1336146	Cover (Assembly)	1
76	17343	Fitting	1
77	1322232	Sender	1
78	111561	Gasket	1
79	16708	Screw	5
80	350483	Sealing Ring	5
81	1307913	Screw	2
82	1498134	Injection Pump (☞ Figure 3-34).....	1
83	1318511	Wire	1
84	298832	Fuel Cap	1
84	191838	Fuel Cap (DS)	1
84	311245	Gasket (DS)	1
84	298833	Baffle	1
84	270763	Baffle	1
85	a 1454144	Tube (With Low Emissions)	1
85	b 1467568	Tube (With Low Emissions)	1
86	1454335	Bracket (With Low Emissions)	1
87	136749	Screw	1
88	320157	Washer	2
89	129684	Clamp	1
90	292681	Lockwasher	1
91	239503	Nut	1
92	1307891	Nut	2

FUEL INJECTION
LOW PRESSURE – DIESEL WITH LOW EMISSIONS (S/N F006D04443 →)

ITEM	PART NO.	DESCRIPTION	QTY
93	1308001	Screw	1
94	1307884 1514429	Nut	1

FOOTNOTES:**a** → S/N F006D05492W**b** S/N F006D05493W →

FUEL INJECTION (FIGURE 3-32) DIESEL (→ S/N F006A03039)



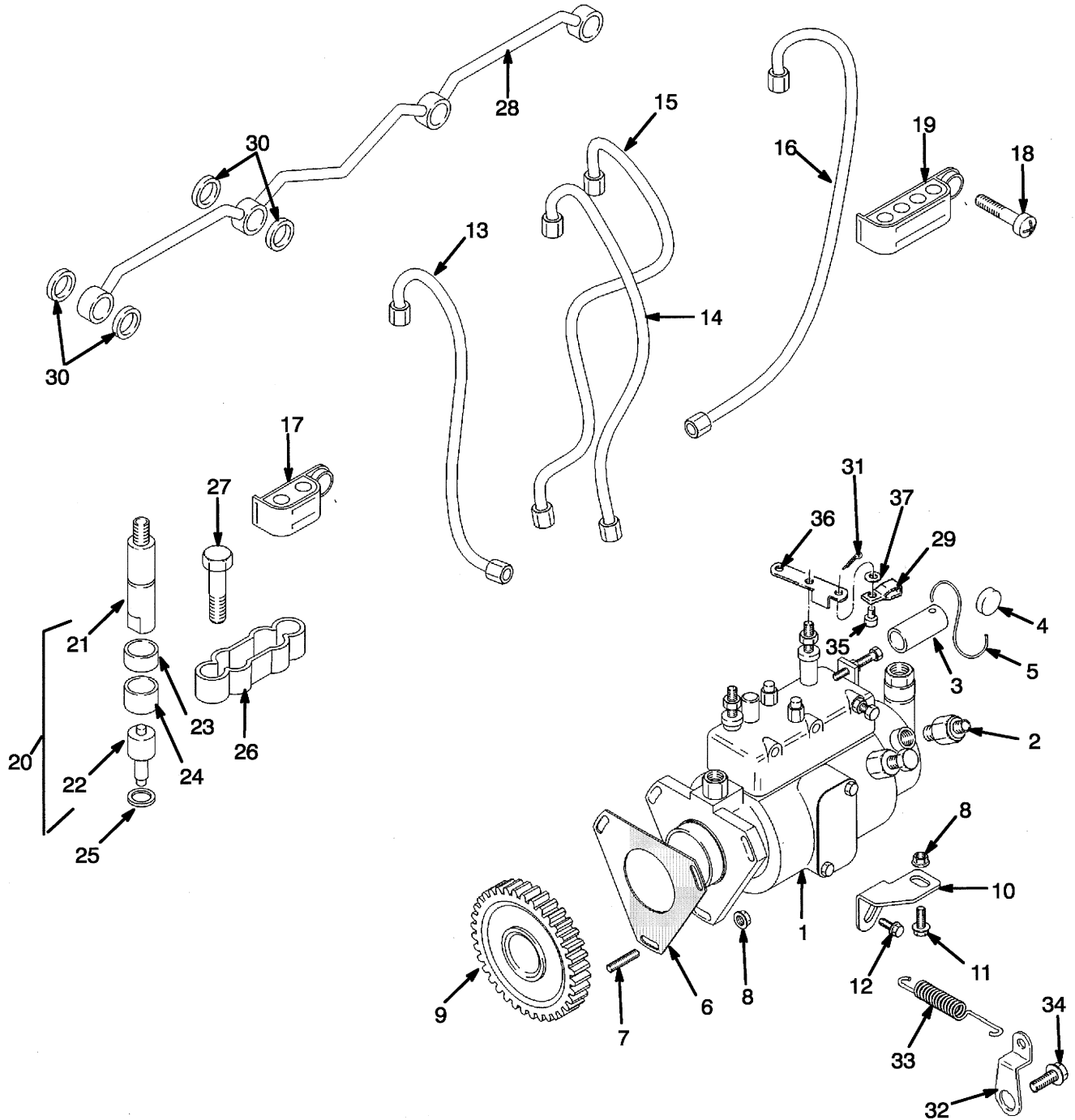
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FUEL INJECTION
DIESEL (→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
	387459	Engine Assy-Diesel	1
1	359146	Spacer	4
2	359145	Seal	4
3	99756	Washer	4
4	328008	Atomizer	4
5	377948	Holder	1
6		Nozzle	1
7	18514	Capscrew	8
8	985567	Washer	8
9	983340	Bolt	4
10	341878	Tube Assy	1
11	152608	Olive	1
11	152609	Nut	1
12	341802	Fitting	1
13	161546	Tube Assy (4)	1
14	161545	Tube Assy (3)	1
15	132401	Locknut	3
16	99780	Plate	6
17	99779	Damper	6
18	220501	Screw	3
19	99631	Screw	1
20	99786	Pin	1
21	15200	Cotter Pin	2
22	15132	Washer	1
23	161542	Pin	1
24	158193	Lever	1
25	257438	Washer	1
26	377997	Clevis	1
27	151316	Wire	1
28	151315	Seal	1
29	134958	Sleeve	1
30	377947	Injection Pump	1
30	1306329	Solenoid	1
31	15005	Nut	3
31	15155	Lockwasher	3
32	18515	Washer	3
33	1344905	Gasket	1
34	377946	Stud	3
35	341801	Pin	1
36	1312881	Gear	1
37	168897	Spring (Throttle)	1
38	161540	Bracket	2
39	79852	Spring (Stop)	1
40	328006	Tube Assy (1)	1
41	328007	Tube Assy (2)	1
	372727	Kit-Gasket	1

FUEL INJECTION (FIGURE 3-33)

DIESEL (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)



HP130106

FUEL INJECTION**DIESEL (S/N F006A03040 →) (S/N F006D01501 ↔ S/N F006D04442)**

ITEM	PART NO.	DESCRIPTION	QTY
	377323	Engine Assy-Diesel	1
1	a 1343055	Injection Pump	1
1	c 1498132	Injection Pump	1
2	1306329	Solenoid	1
3	1371708	Sleeve	1
4	151315	Seal	1
5	151316	Wire	1
6	1371720	Gasket	1
7	1456729	Pipe	3
8	1306359	Nut	4
9	1306049	Gear	1
10	1306125	Bracket	1
11	386459	Screw	1
12	1306371	Screw	1
13	b 1306126	Tube Assy (1)	1
13	d 1388381	Tube Assy (1)	1
14	b 1306127	Tube Assy (2)	1
14	d 1388382	Tube Assy (2)	1
15	b 1306128	Tube Assy (3)	1
15	d 1388383	Tube Assy (3)	1
16	b 1306129	Tube Assy (4)	1
16	d 1388384	Tube Assy (4)	1
17	1388385	Clip	2
18	1306372	Screw	3
19	1388386	Clip	1
20	1306132	Atomizer	4
21	1306133	Holder	1
22	1306134	Nozzle	1
23	359144	Spacer	4
24	359145	Seal	4
25	99756	Washer	4
26	1306135	Clamp	4
27	1306373	Screw	8
28	1306136	Pipe	1
29	377997	Clevis	1
30	985567	Washer	8
30	983340	Bolt (Not Illustrated)	4
31	15200	Cotter Pin	1
32	1306334	Bracket	1
33	1315751	Spring	1
34	1306354	Screw	1
35	161542	Pin	1
36	c 1385720	Lever (Throttle)	1
36	a 158193	Lever (Throttle)	1
37	257438	Washer	1
	1371723	Kit-Gasket	1
	1523917	Kit-Gasket	1

FOOTNOTES:

a → U645308Y

b → U679765Y

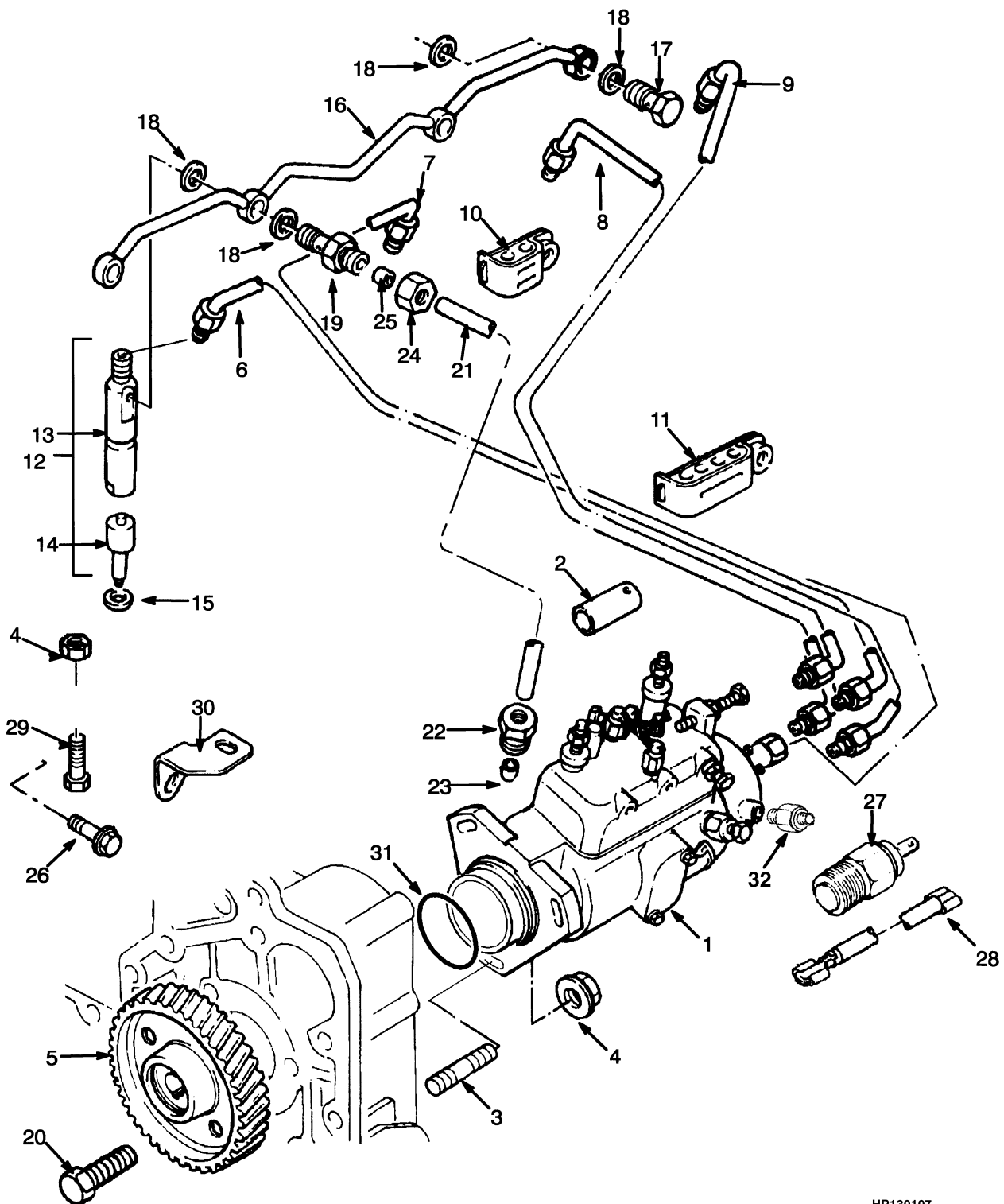
c U645309Y →

d U679766Y →

NOTES

[illegible]

FUEL INJECTION AND PUMP (FIGURE 3-34) HIGH PRESSURE WITH LOW EMISSIONS (S/N F006D04443 →)

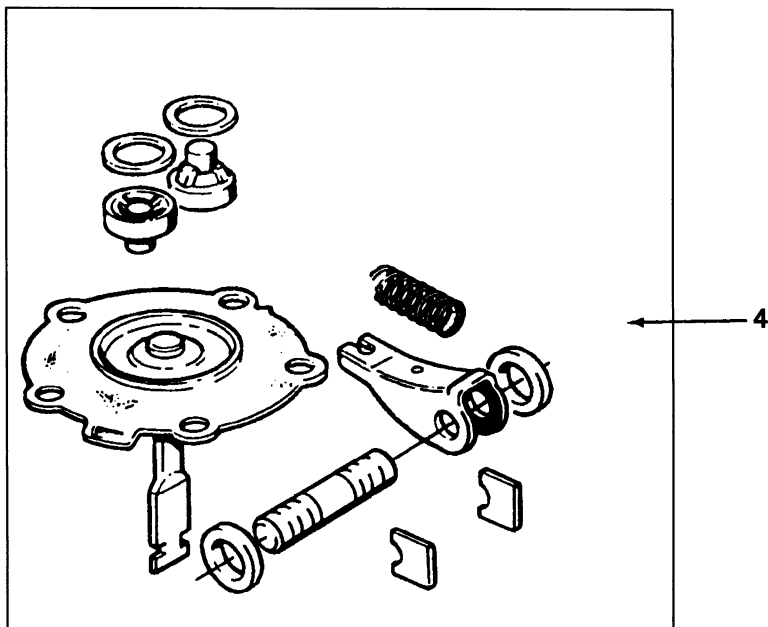
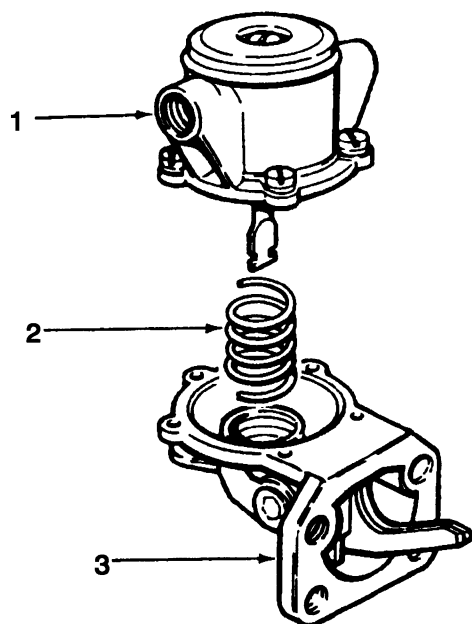


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FUEL INJECTION AND PUMP
HIGH PRESSURE WITH LOW EMISSIONS (S/N F006D04443 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1453203	Engine Assy-Diesel (Powershift)	1
1	1498134	Injection Pump	1
1	1498136	Solenoid (Stop)	1
2	1460024	Cap	1
3	1306369	Stud	3
4	1306359	Nut	4
5	1456727	Gear (Fuel Pump)	1
6	1460552	Tube Assy (1)	1
7	1515797	Tube Assy (2)	1
8	1460554	Tube Assy (3)	1
9	1460555	Tube Assy (4)	1
10	1388385	Clip	2
11	1388386	Clip	1
12	1456732	Atomizer	4
13	1456733	Holder	1
14	1456734	Nozzle	1
15	1537246		
	1451669	Washer (Copper)	4
16	1456735	Tube Assy (Leak Off)	1
17	1451672	Bolt	3
18	1451673	Washer	8
19	1451674	Fitting	1
20	1307881	Screw	4
21	1456736	Pipe (Air)	1
22	1311070	Nut	1
23	1306337	Olive	1
24	152609	Nut	1
25	152608	Olive	1
26	386459	Screw	1
27	1451656	Sender (Cold Start Installed on Manifold-Inlet)	1
28	1515803	Cable	1
29	1306371	Screw	1
30	1453315	Bracket	1
31	1460572	O-Ring	1
32	1306329	Solenoid	1

LIFT PUMP (FIGURE 3-35) DIESEL (→ S/N F006D04442)



HP130108

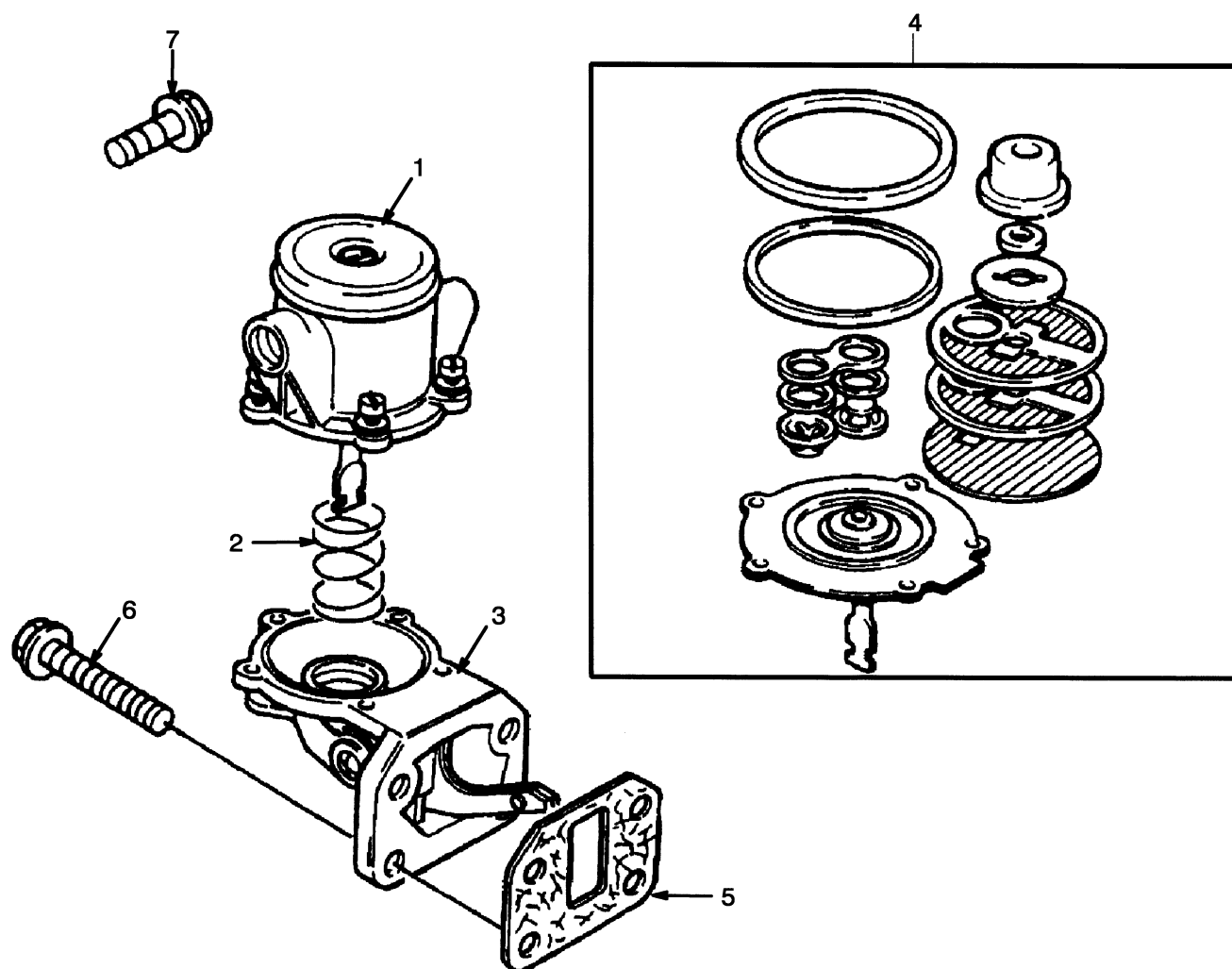
LIFT PUMP
DIESEL (→ S/N F006D04442)

ITEM	PART NO.	DESCRIPTION	QTY
	bc 1380760	Lift Pump	1
	a 229879	Fuel Pump	1
	bc 377323	Engine Assy-Diesel	1
	a 387459	Engine Assy-Diesel	1
1		Cover	1
2	983820	Spring	1
3		Body	1
4	a 327649	Kit-Repair Lift Pump	1
4	bc 986072	Kit-Repair Lift Pump	1

FOOTNOTES:**a** → S/N F006A03039**c** S/N F006D01501 →**b** S/N F006A03040 →

LIFT PUMP (FIGURE 3-36)

DIESEL — WITH LOW EMISSIONS (S/N F006D04443 →)



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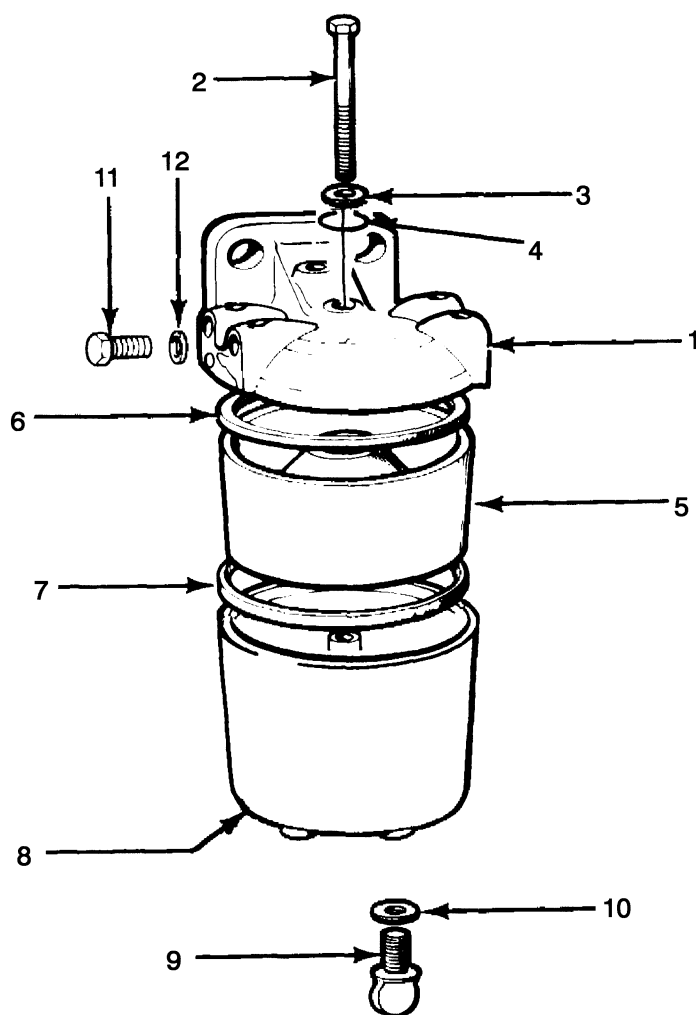
LIFT PUMP
DIESEL – WITH LOW EMISSIONS (S/N F006D04443 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1456338	Lift Pump	1
	1453203	Engine Assy-Diesel (Powershift)	1
1		Cover	1
2		Spring	1
3		Body	1
4	a 1515806	Kit-Filter, Lift Pump	1
5	1345754	Gasket	1
6	1307894	Screw	4
7	386459	Screw	1

FOOTNOTES:

- a** No Longer Available, Service with New Pump
1456338

WATER SEPARATOR AND FILTER (FIGURE 3-37) DIESEL

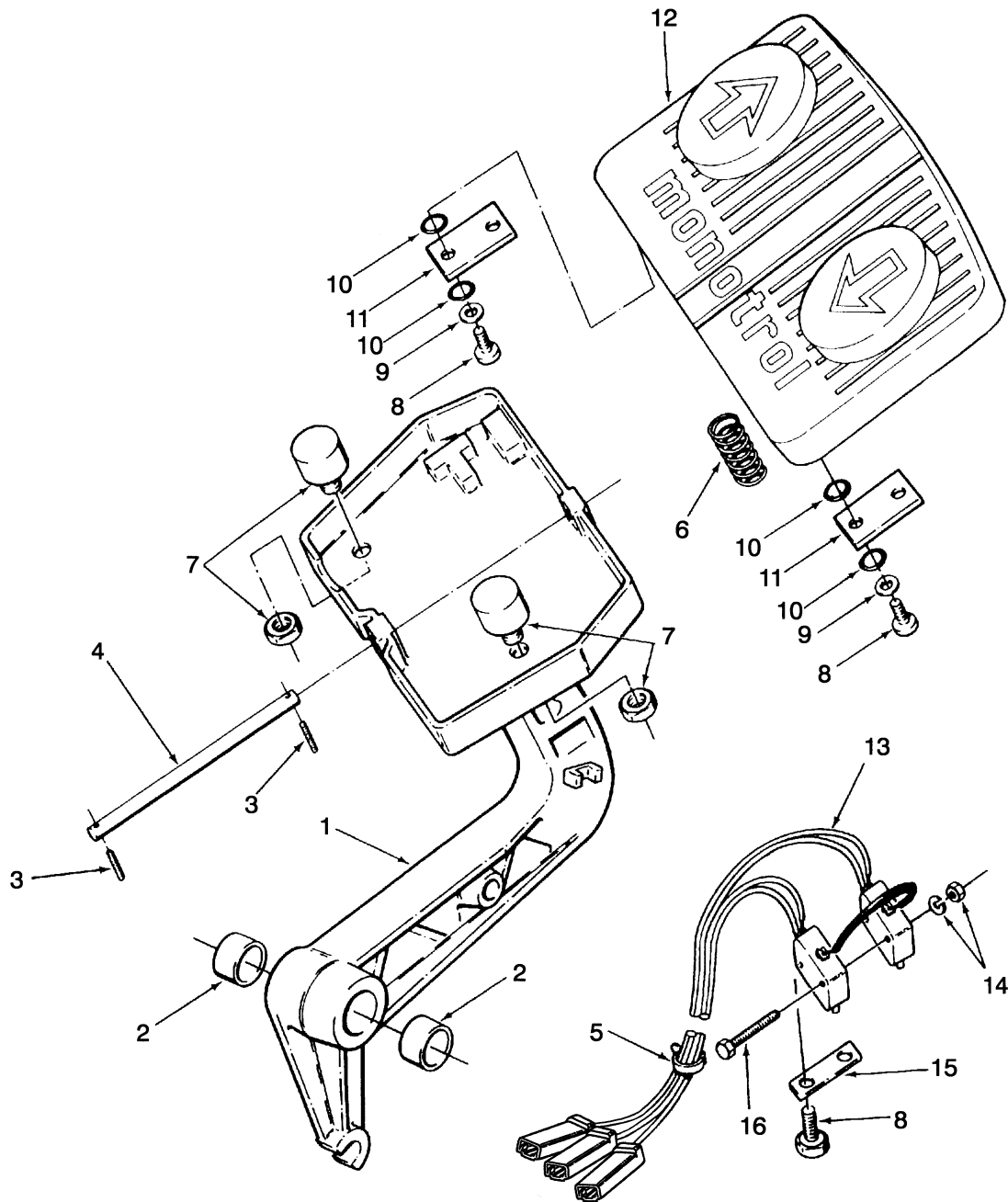


HP130110

**WATER SEPARATOR AND FILTER
DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	271047	Water Separator	1
1	272273	Filter Head	1
2	256219	Bolt	1
3	256220	Washer	1
4	168914	Seal	1
5	177407	Fuel Filter	1
6	292781	Seal (Bottom)	1
7	292782	Seal (Top)	1
8	271443	Base	1
9	271448	Drain Plug	1
10	271449	Washer	1
11	170688	Plug	2
12	272274	Washer	1

MONOTROL PEDAL (FIGURE 3-38)



HP240083

MONOTROL PEDAL

ITEM	PART NO.	DESCRIPTION	QTY
	353398	Monotrol Pedal	1
1	353397	Pedal	1
2	135685	Bushing	2
3	220932	Setscrew	2
3	360387	Loctite	AR
4	353154	Pin	1
5	114312	Strap Clamp	2
6	353168	Spring	1
7	353432	Nut	2
7	353422	Magnet	2
8	352969	Screw	6
9	353448	Washer	4
10	57568	O-Ring	8
11	359207	Plate	2
12	353175	Pad Assembly	1
13	353220	Switch	1
14	16865	Nut	2
14	53162	Lockwasher	2
15	353165	Retainer	1
16	220434	Screw	2

[illegible]

**SECTION 4
ELECTRICAL SYSTEM**

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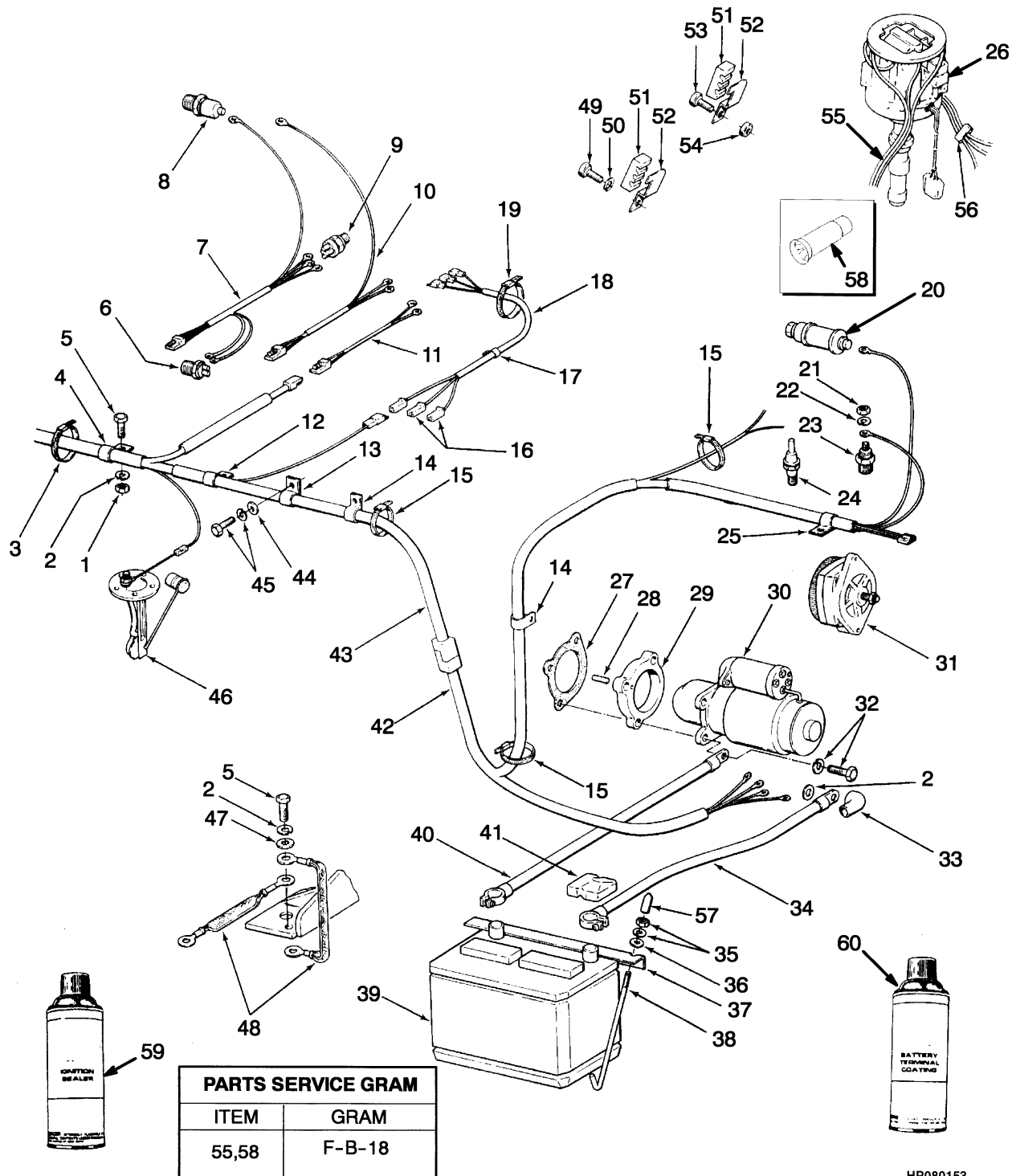
SECTION 4 ELECTRICAL SYSTEM

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NOTES

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ELECTRICAL SYSTEM (FIGURE 4-1) GASOLINE AND LPG (→ S/N F006A07082)



HP080153

ELECTRICAL SYSTEM
GASOLINE AND LPG (→ S/N F006A07082)**KEY:****A: Oil Clutch****B: Powershift**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	136692	Nut	1	1
2	388049			
	292682	Lockwasher	3	3
3	129563	Strap Clamp	1	1
4	153069	Clamp	1	1
5	287854	Capscrew	2	2
6	b 196506	Pressure Switch (Brake Switch)	..	1
7	bh 1312702	Wire Harness (Neutral Start)	..	1
7	be 365921	Wire Harness	..	1
8	h 1322627	Switch (Oil Temperature Warning)	..	1
8	e 285123	Temperature Sender	..	1
9	h 1322668	Switch (Neutral Start)	1	1
9	e 176409	Switch (Neutral Start)	1	1
10	h 1312703	Wire Harness (Neutral Start) (Forward/Reverse Shift Lever)	..	1
10	e 365922	Wire Harness (Forward/Reverse Shift Lever)	..	1
11	h 1312703	Wire Harness (Neutral Start)	1	..
11	e 365920	Wire Harness	1	..
12	153070	Clamp	..	1
13	89220	Clamp	1	..
14	89220	Clamp	2	2
15	114312	Strap Clamp	8	8
16	b 181045	Connector Body	..	2
17	b 124297	Clamp	..	1
18	bh 1322661	Wire Harness	..	1
18	be 362417	Wire Harness	..	1
19	b 129563	Strap Clamp	..	2
20	360137	Solenoid	1	1
21	15002	Nut	1	1
22	15152	Lockwasher	1	1
23	ag 1311401	Temperature Sender	1	1
23	ae 1315441	Temperature Sender	1	1
23	aj 1319190	Temperature Sender	1	1
24	a 366687	Pressure Switch	1	1
25	370281	Clamp	2	2
26	375622	Distributor (☞ Figure 4-31).....	1	1
27	1329626	Gasket	1	..
28	234898	Roll Pin	..	1
29	350065	Spacer	..	1
30	1383779	Starter (☞ Figure 4-22).....	1	1
30	k 1383240	Starter (☞ Figure 4-23).....	1	1
31	c 339599	Alternator (☞ Figure 4-26).....	1	1
31	d 385656	Alternator (☞ Figure 4-28).....	1	1
32	15156	Lockwasher	3	3
32	16376	Capscrew	..	3
32	16741	Capscrew	3	..

ELECTRICAL SYSTEM

GASOLINE AND LPG (→ S/N F006A07082)

KEY:
A: Oil Clutch

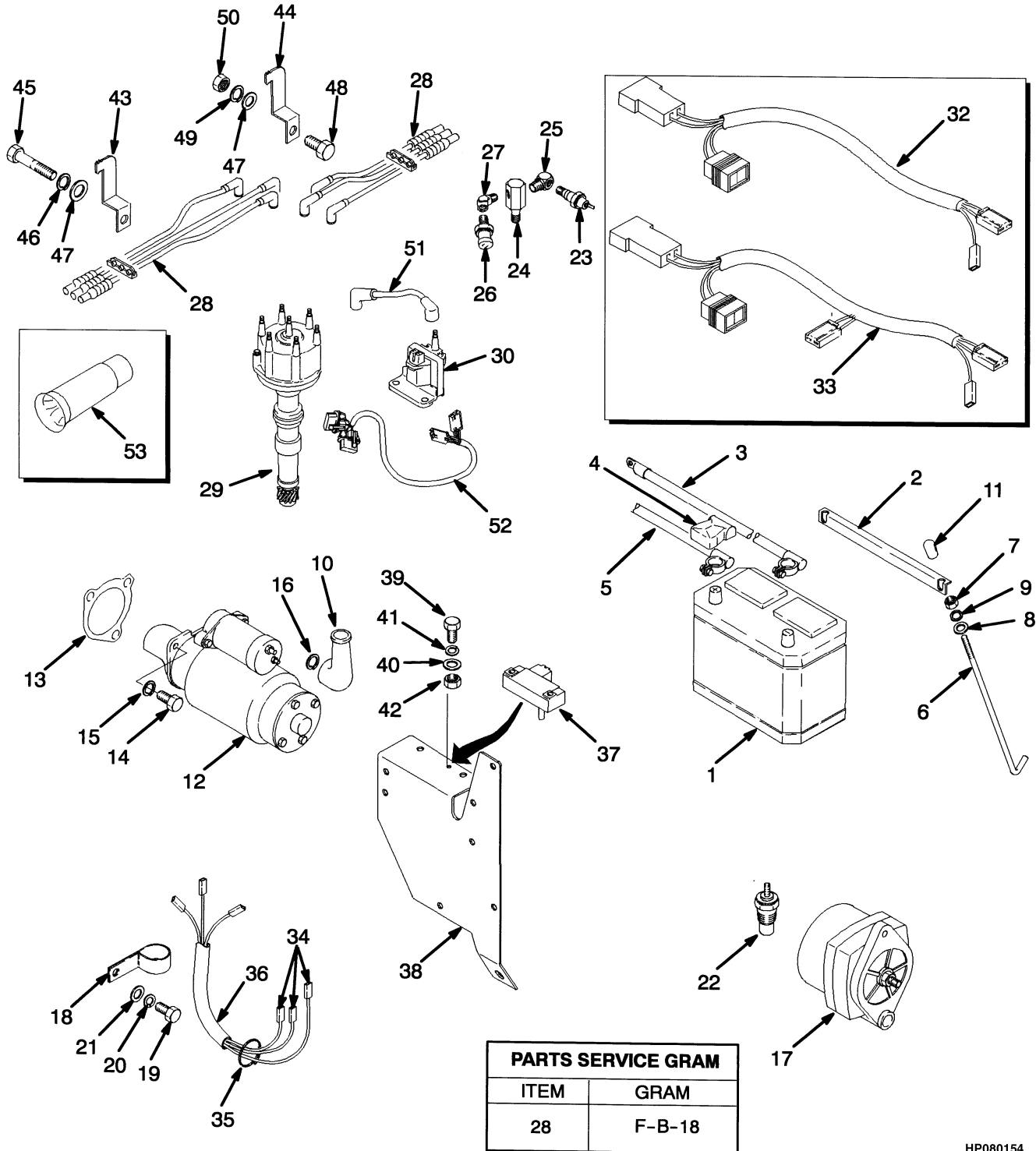
B: Powershift

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
33	204223	Boot	1	1
34	366680	Battery Cable (Positive)	1	1
35	136687	Nut	2	2
35	292680	Washer	2	2
36	320156	Washer	2	2
37	309152	Battery Hold Down	1	1
38	309124	Battery Hold Down	2	2
39	146938	Start Battery Wet (Wet) (Wet)	1	1
39	177894	Start Battery Dry (Dry) (Dry) (Optional)	1	1
40	366676	Battery Cable (Negative)	1	1
41	257241	Boot	1	1
42	h 1312744	Wire Harness (Engine)	1	1
42	e 386381	Wire Harness	1	1
43	f 1312700	Wire Harness (Instrument Panel)	1	1
43	i 1324997	Wire Harness (Main)	1	1
43	e 365916	Wire Harness (Frame)	1	1
44	320159	Washer	2	..
45	18535	Capscrew	2	..
45	388049			
	292682	Lockwasher	2	..
46		Fuel Sender	1	1
47	320159	Washer	1	1
48	362416	Wire	2	2
49	18535	Capscrew	2	2
50	388049			
	292682	Lockwasher	2	2
51	1327907	Support	2	2
52	350190	Support	2	2
53	16597	Capscrew	1	1
54	15056	Nut	1	1
55	1351170	Wire Harness (High Temperature)	1	1
55	350194	Kit-Ignition Cable	1	1
56	1306688	Retainer	2	2
57	1326939	Cap	2	2
58	1351171	Heat Shield	6	6
59	178295	Ignition Sealer	AR	AR
60	178296	Battery Terminal Coating	AR	AR
	1351172	Kit-Ignition Cable	1	1
	996106	Kit-Tune-Up	1	1

FOOTNOTES:

- a** Engine
- b** Monotrol Pedal
- c** Remanufactured Alternator 3012611 R
- d** Remanufactured Alternator 3020077 R
- e** → S/N F006A03790
- f** S/N F006A03791 ↔ S/N F006A05275
- g** S/N F006A03791 ↔ S/N F006A05438
- h** S/N F006A03791 →
- i** S/N F006A05276 →
- j** S/N F006A05439 →
- k** 5/1998 →

ELECTRICAL SYSTEM (FIGURE 4-2)
GASOLINE AND LPG (S/N F006A07083 →)
(S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)



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ELECTRICAL SYSTEM
GASOLINE AND LPG (S/N F006A07083 →)
(S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)

ITEM	PART NO.	DESCRIPTION	QTY
1	146938	Start Battery Wet (Wet)	1
1	177894	Start Battery Dry (Dry)	1
2	309152	Battery Hold Down	1
3	366676	Battery Cable (Negative)	1
4	257241	Boot	1
5	366680	Battery Cable (Positive)	1
6	309124	Battery Hold Down	2
7	136687	Nut	2
8	320156	Washer	2
9	292680	Washer	2
10	204223	Boot	1
11	1326939	Cap	2
12	1383779	Starter (☞ Figure 4-22).....	1
12	1383240	Starter (☞ Figure 4-23).....	1
13	1329626	Gasket	1
13	264159	Adhesive	AR
14	16376	Capscrew (Powershift)	3
15	15156	Lockwasher	3
16	388049		
	292682	Lockwasher	1
17	e 385656	Alternator (Gasoline, LPG, Diesel) (☞ Figure 4-28).....	1
17	d 339599	Alternator (Gasoline, LPG, Diesel) (☞ Figure 4-26).....	1
18	132131	Clamp	1
19	329067	Screw	1
20	292681	Lockwasher	1
21	320157	Washer	1
22	1333827	Temperature Sender	1
23	366687	Pressure Switch	1
24	a 1330341	Fitting	1
25	a 1339443	Fitting	1
26	a 1330353	Pressure Sender	1
27	a 12821	Fitting	1
28	1346150	Wire Harness (Spark Plug) (LH)	1
28	1346151	Wire Harness (Spark Plug) (RH)	1
28	1354179	Kit-Ignition Cable (RH)	1
28	1354180	Kit-Ignition Cable (LH)	1
29	1371235	Distributor (☞ Figure 4-32).....	1
29	1342627	Distributor (☞ Figure 4-32).....	1
29	1450869	Distributor (LX6 1996, LX7 1997, LX8 1998, LX9 1999, 2000 Series Engine) (☞ Figure 4-33).....	1
29	1374322	Distributor (LM4 1994 Series Engine) (☞ Figure 4-33).....	1
30	1331331	Ignition Coil	1
31	a 1333827	Temperature Sender	1
32	bf 1335842	Wire Harness (Neutral Start) (Oil Clutch) (☞ Figure 4-41).....	1
33	c 1345997	Wire Harness (Neutral Start) (☞ Figure 4-34).....	1
34	c 181045	Connector Body	3
35	c 129563	Strap Clamp	1
36	c 1339440	Wire Harness	1
37	1314387	Sensor (MAP)	1

ELECTRICAL SYSTEM
GASOLINE AND LPG (S/N F006A07083 →)
(S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)

ITEM	PART NO.	DESCRIPTION	QTY
38	1333830	Bracket	1
39	302251	Capscrew	2
40	320155	Washer	2
41	292679	Washer	2
42	292668	Nut	2
43	350190	Support	1
44	1327907	Support	1
45	16598	Capscrew	1
46	15156	Lockwasher	1
47	320156	Washer	2
48	287816	Capscrew	1
49	296379	Washer	1
50	136687	Nut	1
51	g 1343900	Wire Harness (Coil)	1
51	h 1452904	Ignition Cable (Coil)	1
52	1351987	Wire Harness (Primary)	1
53	1351171	Heat Shield	6
	1354178	Kit-Ignition Cable	1
	996211	Kit-Tune-Up	1
	996337	Kit-Tune-Up	1
	1374429	Kit-Ignition Cable	1
	996340	Kit-Tune-Up	1

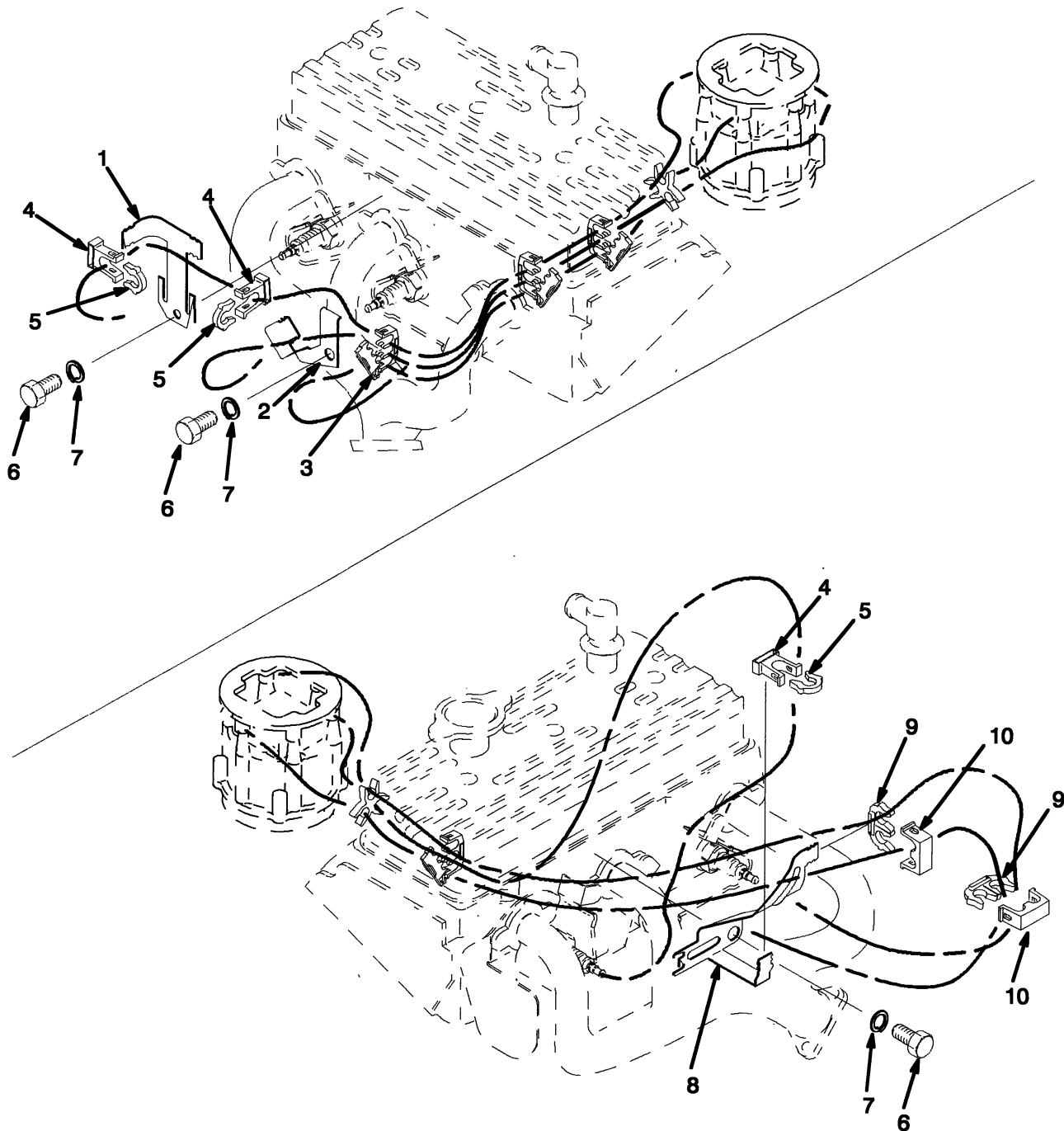
FOOTNOTES:

- | | |
|--|--|
| a Gasoline | e Remanufactured Alternator 3020077 R |
| b Powershift (Forward/Reverse Lever) | f → S/N F006D03779 |
| c Powershift (Monotrol Pedal) | g → S/N F006D03945 |
| d Remanufactured Alternator 3012611 R | h S/N F006D03946 → |

NOTES

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IGNITION WIRE ROUTING KIT (FIGURE 4-3)



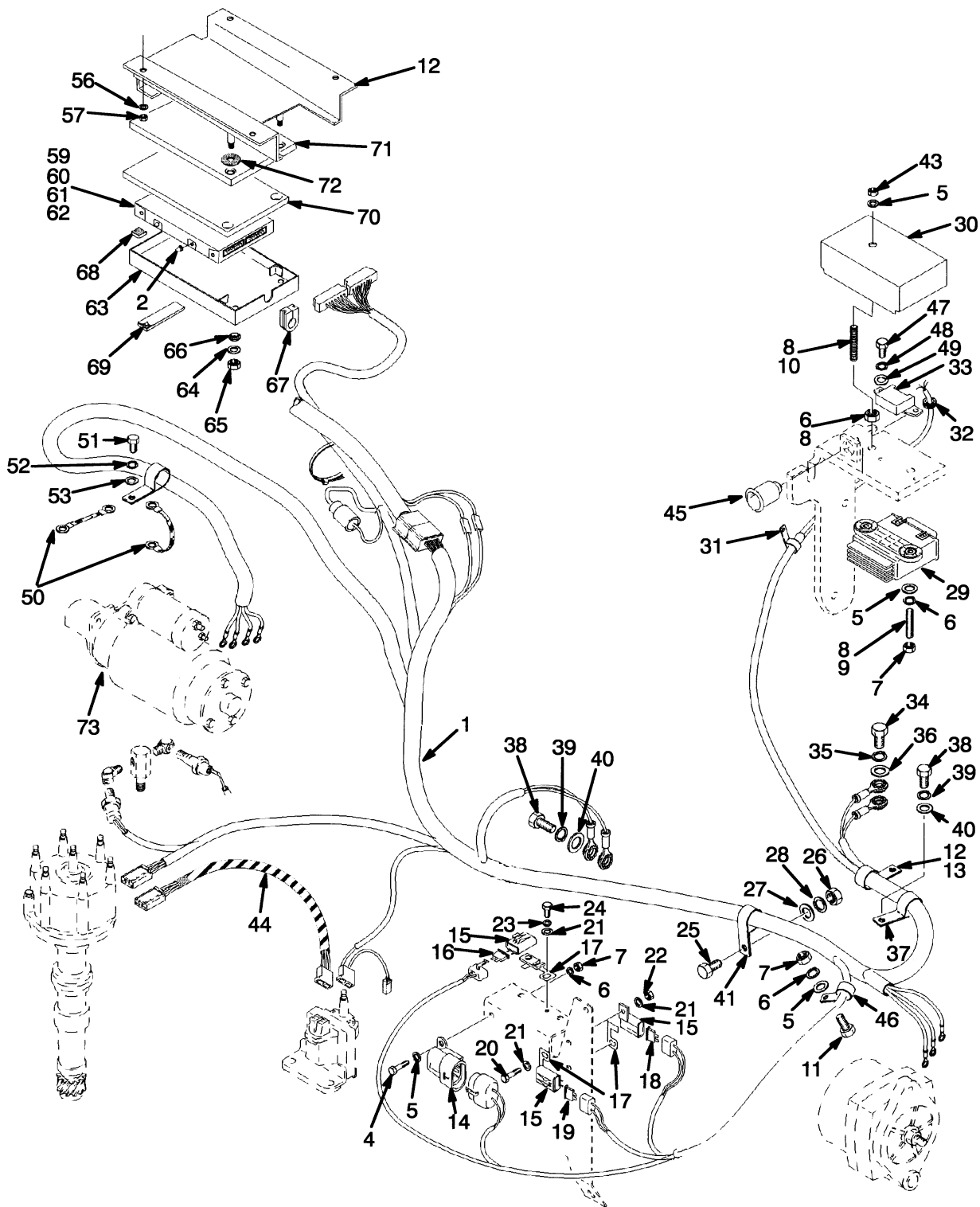
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IGNITION WIRE ROUTING KIT

ITEM	PART NO.	DESCRIPTION	QTY
1	1327907	Support	1
2	1327908	Support	1
3	1327909	Clip	1
4	1327910	Clip	3
5	1327911	Clip	3
6	133469	Capscrew	3
7	15154	Lockwasher	3
8	1327912	Support	1
9	1327913	Clip	2
10	1327914	Clip	2

ELECTRICAL SYSTEM (FIGURE 4-4)

GASOLINE (S/N F006A07083 →) (S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)



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ELECTRICAL SYSTEM**GASOLINE (S/N F006A07083 →) (S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)**

ITEM	PART NO.	DESCRIPTION	QTY
1	1337891	Wire Harness (Gasoline Engine) (☞ Figure 4-44).....	1
2	1345986	Bumper	6
3	325897	Clamp	1
4	287816	Capscrew	2
5	320156	Washer	6
6	292680	Washer	6
7	136687	Nut	6
8	251099	Loctite	AR
9	1339463	Stud	2
10	1337799	Stud	1
11	a 292501	Capscrew	1
12	1339404	Bracket (Mounting)	1
13	1339450	Clamp	1
14	1330301	Relay (Power Latch) (Fuel Pump)	1
15	1330293	Cover (Fuse)	3
16	370647	Fuse (10 Amp)	2
17	1339444	Clip	3
18	1337828	Fuse (3 Amp)	1
19	370646	Fuse (5 Amp)	1
20	302247	Capscrew	3
21	320155	Washer	6
22	302398	Locknut	2
23	a 292679	Washer	1
23	b 302398	Locknut	2
24	a 1339445	Capscrew	1
24	b 302247	Capscrew	2
25	a 176640	Bolt	1
26	a 239503	Nut	1
27	320158	Washer	2
28	a 292681	Lockwasher	1
29	1327951	Module (Governor)	1
30	1339434	Cover	1
31	136516	Clamp	1
32	1337798	Grommet	1
33	1327956	Connector	1
34	18496	Capscrew	1
35	15155	Lockwasher	1
36	18515	Washer	1
37	1520644	Sensor (MAP)	1
38	16598	Capscrew	2
39	15156	Lockwasher	2
40	15134	Washer	2
41	a 173247	Clamp	1
42	129563	Strap Clamp	AR
43	1512440		
	302399	Nut	1
44	275494	Conduit	AR
45	1339436	Connector	1
45	1369499	Connector	1
45	251099	Loctite	AR

ELECTRICAL SYSTEM**GASOLINE (S/N F006A07083 →) (S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)**

ITEM	PART NO.	DESCRIPTION	QTY
46	a 132972	Clamp	1
47	220416	Screw	2
48	15916	Lockwasher	2
49	197067	Washer	2
50	362416	Wire	2
51	287854	Capscrew	2
52	388049		
	292682	Lockwasher	2
53	320159	Washer	1
54	296361	Washer	1
55	1339404	Bracket	1
56	15056	Nut	4
57	15156	Lockwasher	4
59	1337793	Electronic Control Module	1
60	1327962	Control Module (Standard)	1
61	1327955	EPROM (EPROM)	1
62	1337790	EPROM (Standard)	1
62	1357974	Label	1
62	1358259	EPROM (1900 RPM)	1
62	1358260	EPROM (2100 RPM)	1
62	1358261	EPROM (2300 RPM)	1
63	1334983	Housing (ECM)	1
64	15134	Washer	2
65	230886	Locknut	2
66	185793	Isolator	2
67	1345988	Grommet	1
68	1345985	Isolator	4
69	1336865	Isolator	1
70	1345984	Pad	1
71	1345983	Cover	1
72	1345987	Washer	1
73	1383779	Starter (☞ Figure 4-22).....	1
	1357971	Kit-Travel Speed (1900 RPM)	1
	1357972	Kit-Travel Speed (2100 RPM)	1
	1357973	Kit-Travel Speed (2300 RPM)	1

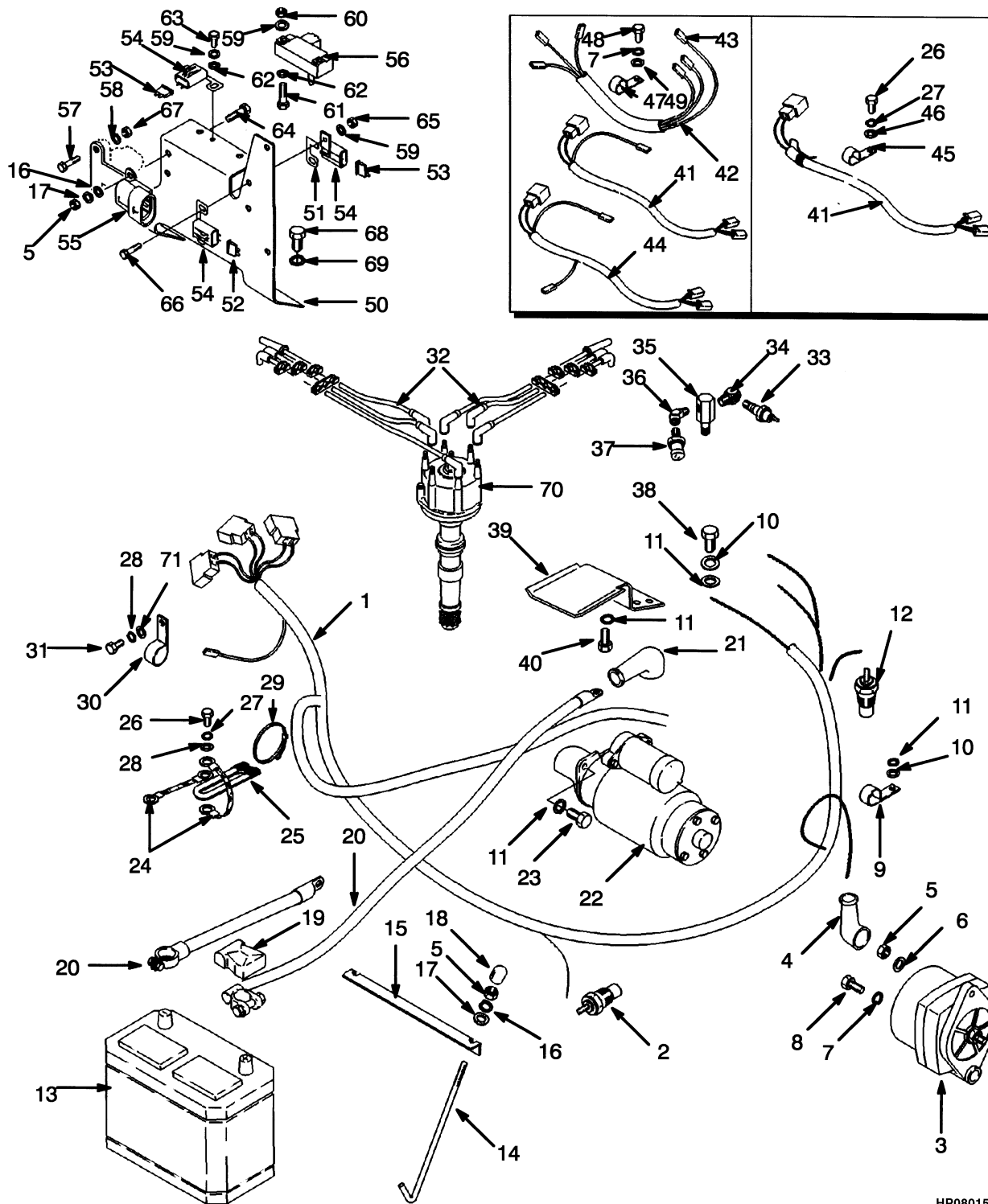
FOOTNOTES:**a** → S/N F006D04791**b** S/N F006D04792 →

NOTES

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ELECTRICAL SYSTEM (FIGURE 4-5)

GASOLINE AND LPG (S/N F006D02948 ↔ S/N F006D04791 INC. 2936 EXC. 2960, 2976)



ELECTRICAL SYSTEM**GASOLINE AND LPG (S/N F006D02948 ↔ S/N F006D04791 INC. 2936 EXC. 2960, 2976)**

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1383277	Wire Harness (☞ Figure 4-45).....	1
1	h 1383279	Wire Harness (LPG Engine) (☞ Figure 4-39).....	1
1	k 2035710	Wire Harness (☞ Figure 4-40).....	1
1	k 2046795	Wire Harness (☞ Figure 4-40).....	1
2	1314381	Temperature Sender	1
3	d 339599	Alternator (Gasoline, LPG, Diesel) (☞ Figure 4-26).....	1
3	e 385656	Alternator (Gasoline, LPG, Diesel) (☞ Figure 4-28).....	1
4	157065	Boot	1
5	136687	Nut	5
6	296359	Washer	1
7	h 292681	Lockwasher	2
8	287851	Capscrew	1
9	136516	Clamp	1
10	15134	Washer	2
11	15156	Lockwasher	6
12	1333827	Temperature Sender	1
13	1383331	Start Battery Wet (Wet)	1
14	309124	Battery Hold Down	2
15	309152	Battery Hold Down	1
16	292680	Washer	4
17	320156	Washer	4
18	1326939	Cap	2
19	257241	Boot	1
20	1383286	Battery Cable (Negative)	1
20	1383347	Battery Cable (Positive)	1
21	204223	Boot	1
22	i 1383240	Starter (☞ Figure 4-23).....	1
23	16356	Capscrew	2
24	362416	Wire	2
25	1350914	Strap	1
26	287854	Capscrew	3
27	388049		
	292682	Lockwasher	5
28	320159	Washer	3
29	129563	Strap Clamp	AR
30	1395872	Outer Mast	1
31	k 136681	Capscrew	1
31	h 18535	Capscrew	2
32	g 1383254	Wire Harness (Spark Plug) (RH)	1
32	g 1383255	Wire Harness (Spark Plug) (LH)	1
32	j 1452900	Wire Harness (Spark Plug) (LH)	1
32	j 1452901	Wire Harness (RH)	1
33	366687	Pressure Switch	1
34	1339443	Fitting	1
35	1383346	Fitting	1
36	12821	Fitting	1
37	1330353	Pressure Sender	1
38	16598	Capscrew	1
39	1384332	Drip Shield	1
40	16597	Capscrew	2

ELECTRICAL SYSTEM

GASOLINE AND LPG (S/N F006D02948 ↔ S/N F006D04791 INC. 2936 EXC. 2960, 2976)

ITEM	PART NO.	DESCRIPTION	QTY
41	bf 1335842	Wire Harness (Neutral Start) (Oil Clutch)	1
42	c 1339440	Wire Harness	1
43	c 181045	Connector Body	6
44	c 1345997	Wire Harness (Neutral Start)	1
45	h 153069	Clamp	1
46	136692	Nut	1
47	c 132131	Clamp	1
48	329067	Screw	1
49	320157	Washer	1
50	1459272	Bracket	1
51	a 1339444	Clip	2
52	a 1337828	Fuse (3 Amp)	1
53	a 370647	Fuse (10 Amp)	2
54	a 1330293	Cover (Fuse)	3
55	a 1330301	Relay (Power Latch)	1
56	1520644	Sensor (MAP)	1
57	h 136749	Screw	2
57	k 176640	Bolt	2
58	k 292681	Lockwasher	2
58	h 320157	Washer	2
59	292679	Washer	3
60	292668	Nut	2
61	302251	Capscrew	2
62	320155	Washer	3
63	h 1339445	Capscrew	1
64	287816	Capscrew	2
65	302398	Locknut	2
66	302247	Capscrew	2
67	k 239503	Nut	2
67	h 313828	Nut	2
68	18509	Capscrew	2
69	15155	Lockwasher	2
70	1450869	Distributor (LX6 1996, LX7 1997, LX8 1998, LX9 1999, 2000 Series Engine) (☞ Figure 4-33).....	1
70	1374322	Distributor (LM4 1994 Series Engine) (☞ Figure 4-33).....	1
71	k 302400	Nut	1

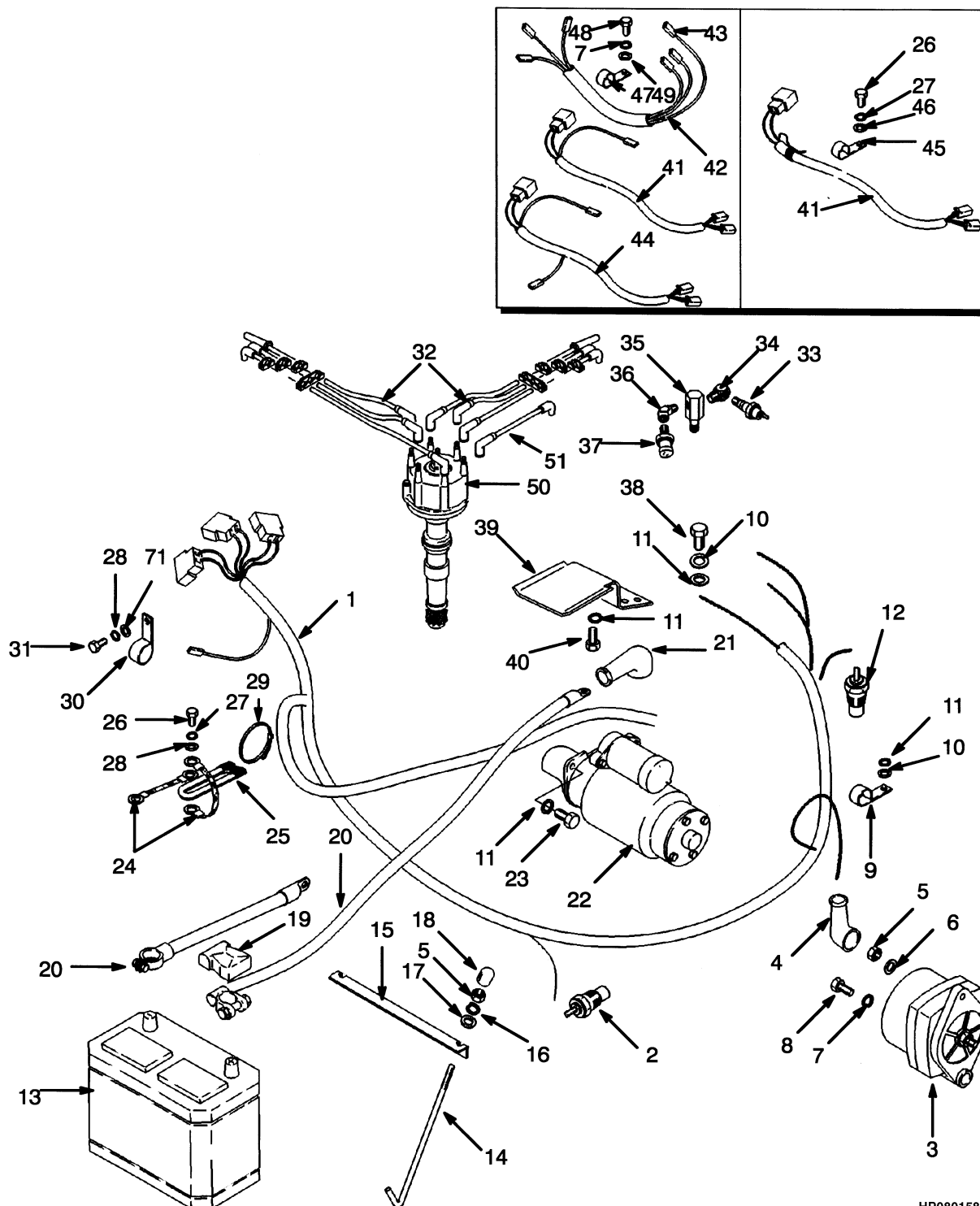
FOOTNOTES:

a	Gasoline Only	g	→ S/N F006D03945
b	Powershift (Forward/Reverse Lever)	h	→ S/N F006D04791
c	Powershift (Monotrol Pedal)	i	5/1998 →
d	Remanufactured Alternator 3012611 R	j	S/N F006D03946 →
e	Remanufactured Alternator 3020077 R	k	S/N F006D04792 →
f	→ S/N F006D03778		

NOTES

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ELECTRICAL SYSTEM (FIGURE 4-6) GASOLINE AND LPG (S/N F006D04792 →)



HP080158

ELECTRICAL SYSTEM
GASOLINE AND LPG (S/N F006D04792 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	ah 2036694	Wire Harness (☞ Figure 4-47).....	1
1	ai 2046793	Wire Harness (☞ Figure 4-47).....	1
1	ak 2049783	Wire Harness	1
1	bg 2035710	Wire Harness (☞ Figure 4-40).....	1
1	bj 2046795	Wire Harness (☞ Figure 4-40).....	1
2	1314381	Temperature Sender	1
3	ef 1358911	Alternator (☞ Figure 4-27).....	1
3	m 1469597	Alternator (☞ Figure 4-26, ☞ Figure 4-28).....	1
3	m 1469601	Wire (Alternator To Engine Harness)	1
4	157065	Boot	1
5	136687	Nut	3
6	296359	Washer	1
7	292681	Lockwasher	2
8	287851	Capscrew	1
9	136516	Clamp	1
10	15134	Washer	2
11	15156	Lockwasher	6
12	1333827	Temperature Sender	1
13	1383331	Start Battery Wet (Wet)	1
14	309124	Battery Hold Down	2
15	309152	Battery Hold Down	1
16	292680	Washer	2
17	320156	Washer	2
18	1326939	Cap	2
19	257241	Boot	1
20	1383286	Battery Cable (Negative)	1
20	1383347	Battery Cable (Positive)	1
21	204223	Boot	1
22	I 1383240	Starter (☞ Figure 4-23).....	1
23	16356	Capscrew	2
24	362416	Wire	2
25	1350914	Strap	1
26	287854	Capscrew	3
27	388049		
	292682	Lockwasher	5
28	320159	Washer	3
29	129563	Strap Clamp	AR
30	89220	Clamp	1
31	136681	Capscrew	1
32	1477432	Kit-Ignition Cable (Spark Plug) (RH)	1
32	1477431	Kit-Ignition Cable (Spark Plug) (LH)	1
33	366687	Pressure Switch	1
34	1339443	Fitting	1
35	1383346	Fitting	1
36	12821	Fitting	1
37	1330353	Pressure Sender	1
38	16598	Capscrew	1
39	1384332	Drip Shield	1
40	16597	Capscrew	2
41	c 1335842	Wire Harness (Neutral Start)	1

ELECTRICAL SYSTEM

GASOLINE AND LPG (S/N F006D04792 →)

ITEM	PART NO.	DESCRIPTION	QTY
42	d 1339440	Wire Harness	1
43	181045	Connector Body	6
44	d 1345997	Wire Harness (Neutral Start)	1
45	153069	Clamp	1
46	136692	Nut	1
47	d 132131	Clamp	1
48	329067	Screw	1
49	320157	Washer	1
50	1450869	Distributor (☞Figure 4-33).....	1
50	1374322	Distributor (☞Figure 4-33).....	1
51	1452904	Ignition Cable	1

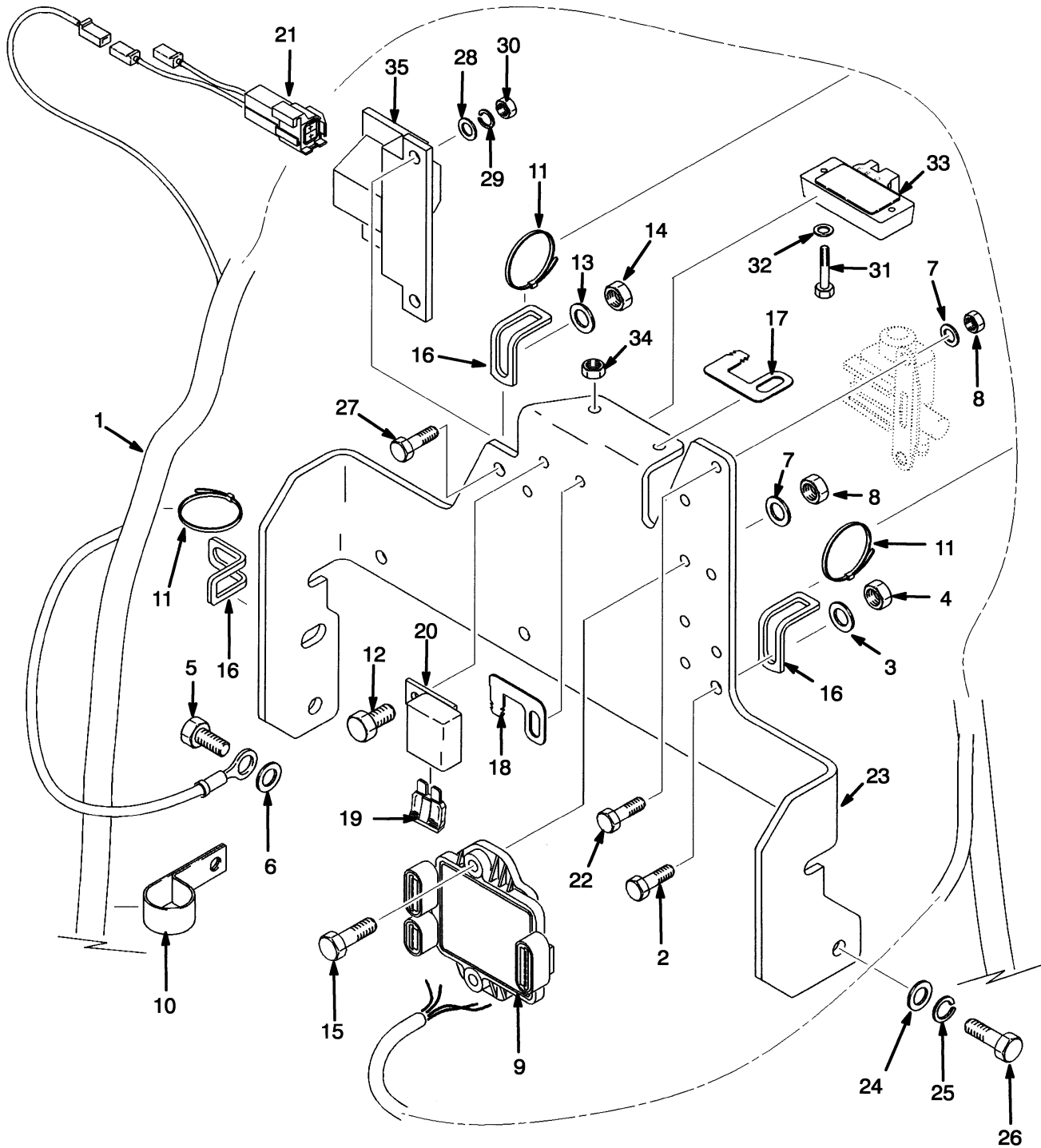
FOOTNOTES:

- | | |
|---|--|
| a Gasoline Only | h S/N F006D05320 ↔ S/N F006D06520 |
| b LPG Only | i S/N F006D06521 ↔ S/N F006D001792Z |
| c Powershift (Forward/Reverse Lever) | j S/N F006D06521 → |
| d Powershift (Monotrol Pedal) | k S/N F006V01793Z → |
| e Service with Alternator 1469597 and Jumper 1469601 | l 5/1998 → |
| f → 7/2001 | m 7/2001 → |
| g → S/N F006D06520 | |

NOTES

[illegible]

ELECTRICAL (FIGURE 4-7) LPG (S/N F006D04792 →)



HP080159

ELECTRICAL
LPG (S/N F006D04792 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	a 2035710	Wire Harness (☞ Figure 4-40).....	1
1	b 2046795	Wire Harness (☞ Figure 4-40).....	1
2	136681	Capscrew	1
3	320158	Washer	1
4	302400	Nut	1
5	16805	Capscrew	1
6	15156	Lockwasher	1
7	320156	Washer	4
8	1512440		
	302399	Nut	4
9	1357061	Controller (2300 RPM)	1
9	1357062	Controller (2100 RPM)	1
9	1357063	Controller (1900 RPM)	1
9	1460766	Kit-Msts Module	1
9	2035533	Msts Controller (MSTS)	1
9	2036234	Wire Harness (MSTS Adapter)	1
9	2036646	Kit-Hardware	1
10	325897	Clamp	1
11	129563	Strap Clamp	AR
12	302247	Capscrew	2
13	320155	Washer	2
14	302398	Locknut	2
15	292502	Capscrew	2
16	1385873	Strap	3
17	1376661	Clip	1
18	1339444	Clip	1
19	370647	Fuse (10 Amp)	2
20	1330293	Cover (Fuse)	1
21	1339403	Wire Harness (From Coil)	1
22	292501	Capscrew	2
23	1459272	Bracket	1
24	15134	Washer	3
25	15156	Lockwasher	3
26	16805	Capscrew	3
27	176640	Bolt	2
28	320158	Washer	2
29	239503	Nut	2
30	292681	Lockwasher	2
31	302251	Capscrew	2
32	320155	Washer	2
33	1520644	Sensor (MAP)	1
34	302398	Locknut	2
35	1386191	Ignition Coil	1
	1357056	Governor Controller (2100 RPM) (1900 RPM)	1
	1357055	Governor Controller (2300 RPM) (2100 RPM)	1
	1357057	Governor Controller (1900 RPM) (2300 RPM)	1

FOOTNOTES:

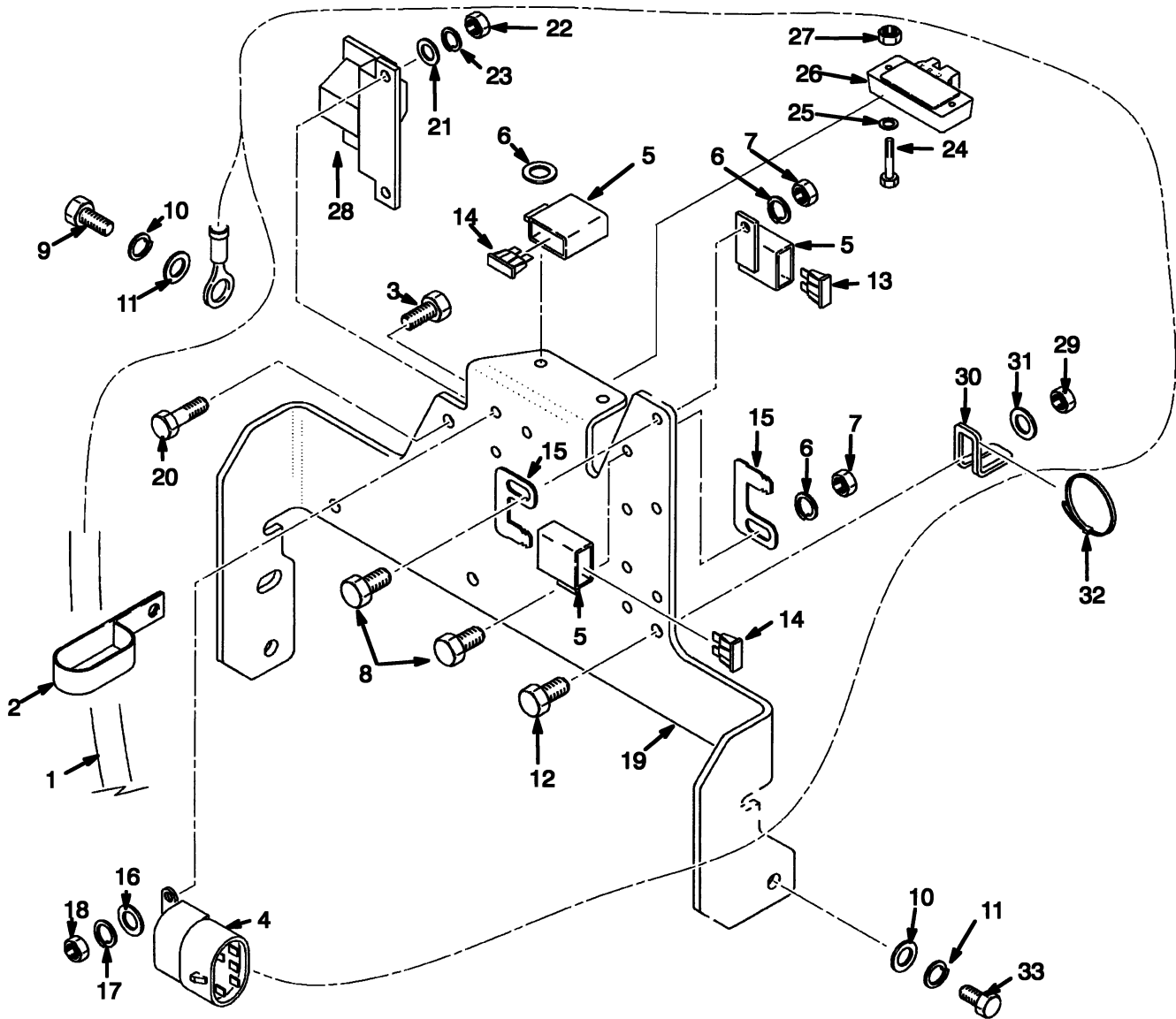
a → S/N F006D06520

b S/N F006D06521 →

NOTES

[illegible]

ELECTRICAL (FIGURE 4-8) GASOLINE (S/N F006D04792V →)



HP080160

ELECTRICAL
GASOLINE (S/N F006D04792V →)

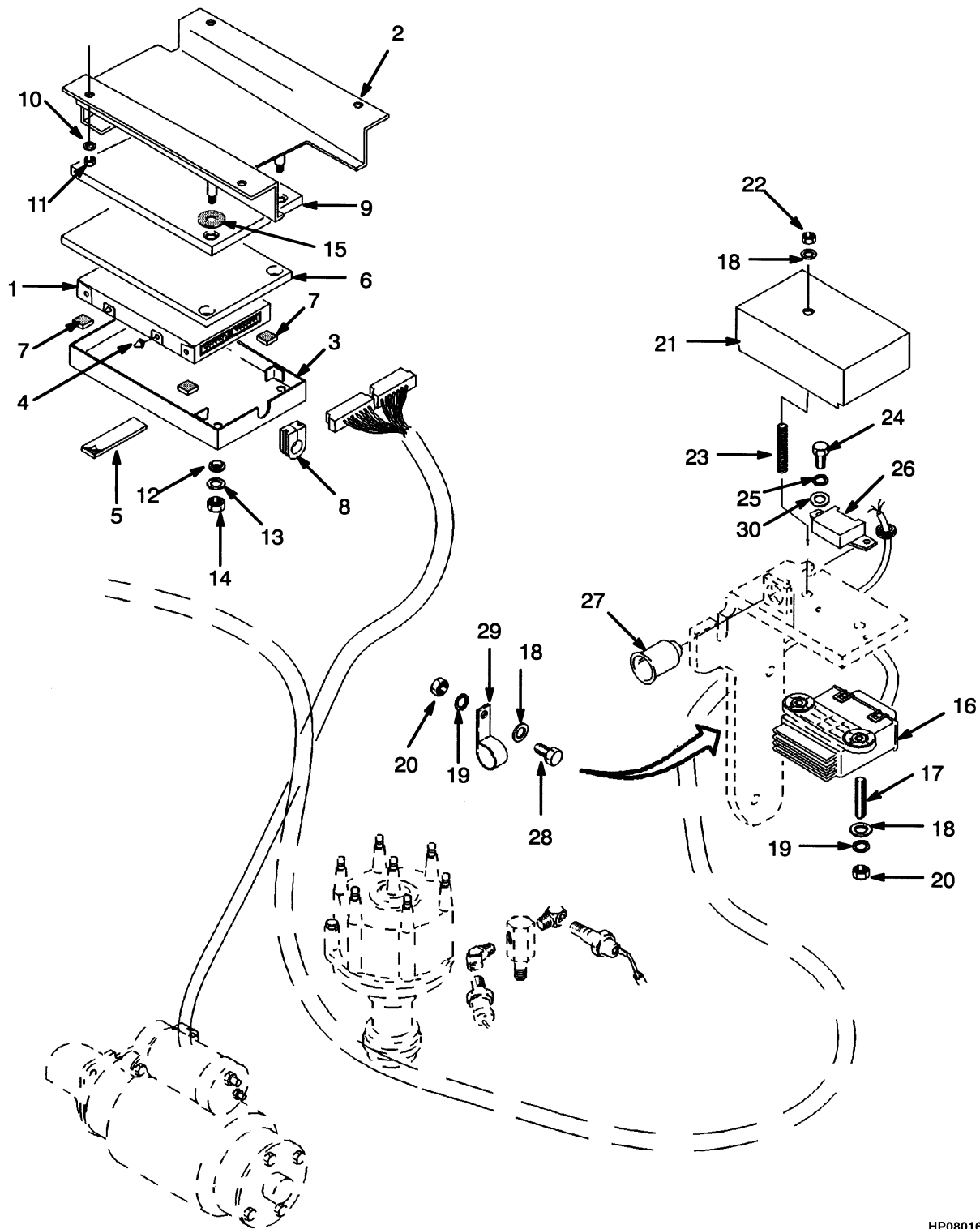
ITEM	PART NO.	DESCRIPTION	QTY
1	a 1383277	Wire Harness (Gasoline) (☞ Figure 4-45).....	1
1	b 2036694	Wire Harness (Gasoline) (☞ Figure 4-47).....	1
1	c 2046793	Wire Harness (Gasoline) (☞ Figure 4-47).....	1
1	d 2049783	Wire Harness (Gasoline)	1
2	325897	Clamp	1
3	287816	Capscrew	2
4	a 1330301	Relay (Power Latch) (Fuel Pump)	1
4	e	Relay (Fuel Pump)	1
4	1654578	Relay (Latch)	1
4	1654579	Clip (Relay)	1
5	1330293	Cover (Fuse) (Fuse)	2
5	a 1330293	Cover (Fuse) (Fuse)	3
6	a 320155	Washer	3
7	302398	Locknut	2
8	302247	Capscrew	2
9	16598	Capscrew	1
10	15134	Washer	5
11	15156	Lockwasher	7
12	136681	Capscrew	1
13	a 1337828	Fuse (3 Amp)	1
14	370647	Fuse (10 Amp)	2
15	1339444	Clip	2
16	320156	Washer	2
17	292680	Washer	2
18	136687	Nut	2
19	a 1459272	Bracket	1
19	1460774	Bracket	1
20	176640	Bolt	2
21	320158	Washer	2
22	239503	Nut	2
23	292681	Lockwasher	2
24	302251	Capscrew	2
25	320155	Washer	2
26	1520644	Sensor (MAP)	1
27	302398	Locknut	2
28	1386191	Ignition Coil	1
29	302400	Nut	1
30	1385873	Strap	1
31	320158	Washer	1
32	129563	Strap Clamp	AR
33	16805	Capscrew	3

FOOTNOTES:

- | | |
|--|----------------------------|
| a → S/N F006D05319 | d S/N F006V01793Z → |
| b S/N F006D05320 ↔ S/N F006D06520 | e S/N F006D05320 → |
| c S/N F006D06521 ↔ S/N F006V001792Z | |

ELECTRICAL CONTROL (FIGURE 4-9)

GASOLINE (S/N F006D02948 ↔ S/N F006D05319 INC. 2936 EXC. 2960, 2976)

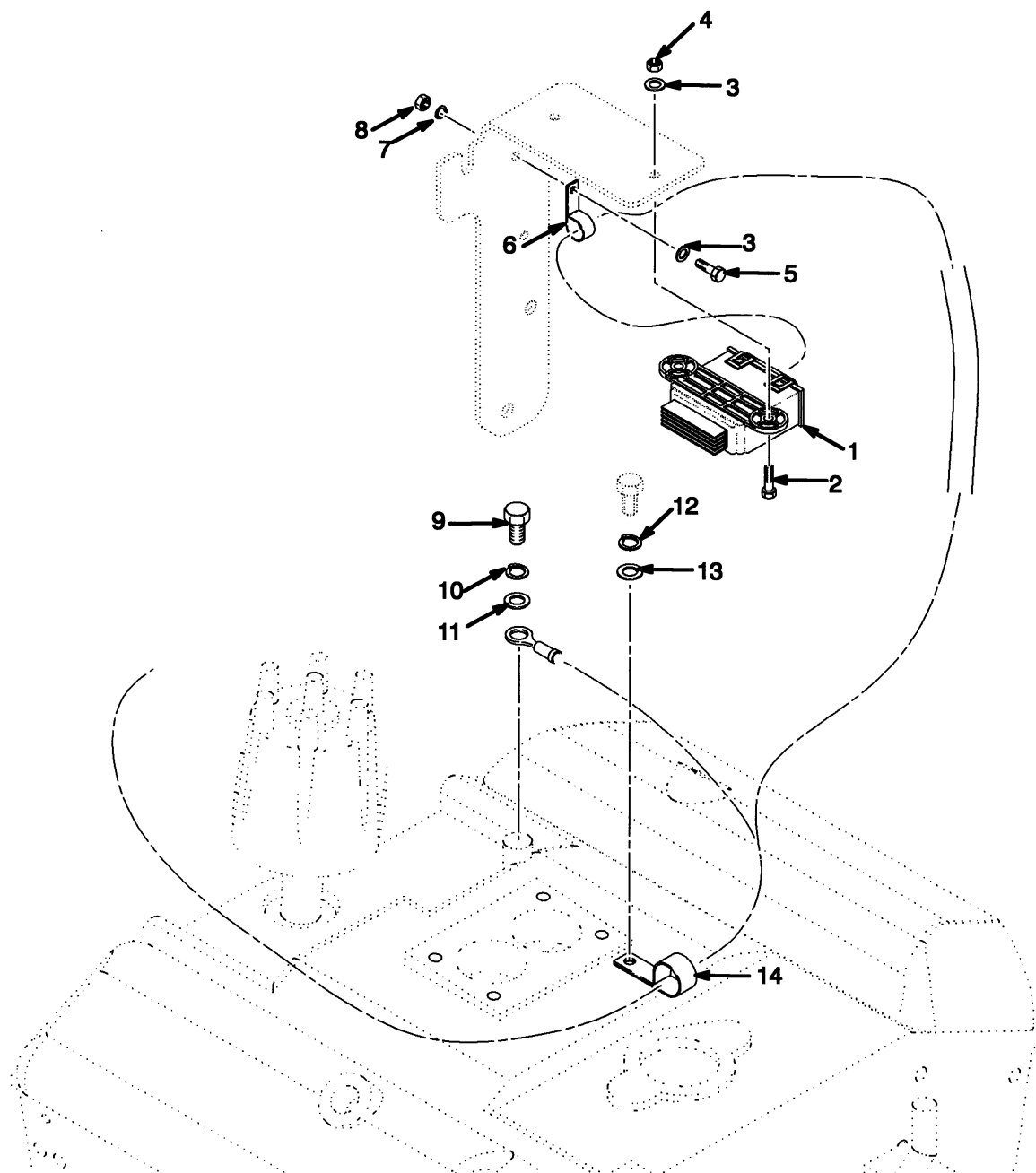


HP080161

ELECTRICAL CONTROL**GASOLINE (S/N F006D02948 ↔ S/N F006D05319 INC. 2936 EXC. 2960, 2976)**

ITEM	PART NO.	DESCRIPTION	QTY
1	1327955	EPROM (EPROM)	1
1	1327962	Control Module (Standard)	1
1	1383290	Electronic Control Module	1
1	1383291	EPROM (Standard)	1
1	1383295	Label	1
1	1383322	EPROM (1900 RPM)	1
1	1383323	EPROM (2100 RPM)	1
1	1383324	EPROM (2300 RPM)	1
2	1339404	Bracket	1
3	1334983	Housing (ECM)	1
4	1345986	Bumper	6
5	1336865	Isolator	1
6	1345984	Pad	1
7	1345985	Isolator	4
8	1345988	Grommet	1
9	1345983	Cover	1
10	388049		
	292682	Lockwasher	4
11	136692	Nut	4
12	185793	Isolator	2
13	15134	Washer	2
14	230886	Locknut	2
15	1345987	Washer	2
16	1327951	Module (Governor)	1
17	1339463	Stud	2
18	320156	Washer	4
19	292680	Washer	4
20	136687	Nut	3
21	1339434	Cover	1
22	1512440		
	302399	Nut	1
23	1337799	Stud	1
24	220489	Screw	2
25	15916	Lockwasher	2
26	1327956	Connector	1
27	1339436	Connector	1
28	287816	Capscrew	1
29	136516	Clamp	1
30	197067	Washer	2
	1383325	Kit-Travel Speed (1900 RPM)	1
	1383326	Kit-Travel Speed (2100 RPM)	1
	1383327	Kit-Travel Speed (2300 RPM)	1

ELECTRICAL CONTROL (FIGURE 4-10) GASOLINE (S/N F006D05320 →)

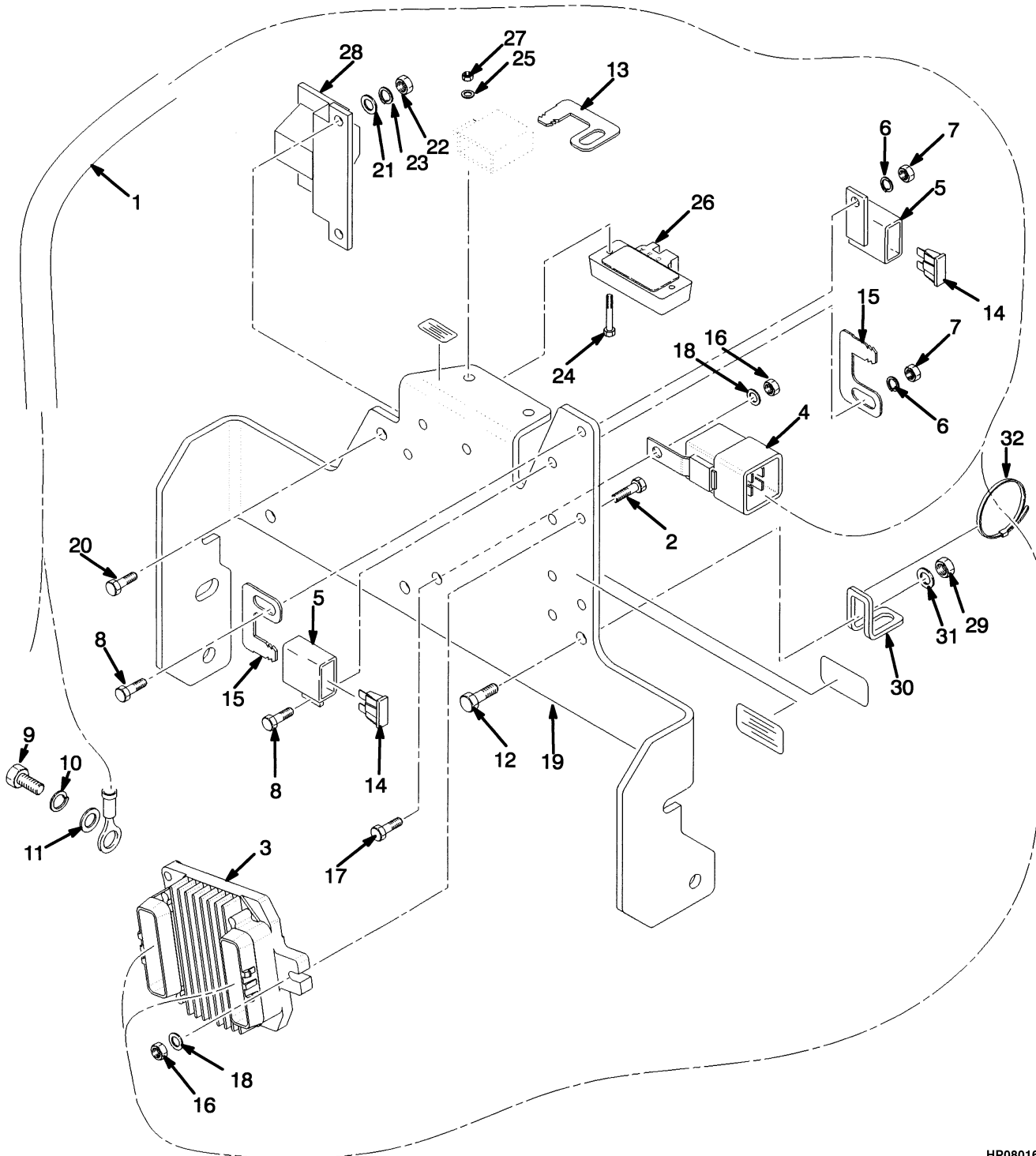


HP080162

ELECTRICAL CONTROL
GASOLINE (S/N F006D05320 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	1327951	Module (Governor) (Governor)	1
2	292501	Capscrew	2
3	320156	Washer	4
4	1512440		
	302399	Nut	2
5	287816	Capscrew	1
6	164488	Clamp	1
7	292680	Washer	1
8	136687	Nut	1
9	18496	Capscrew	1
10	15155	Lockwasher	1
11	18515	Washer	1
12	15156	Lockwasher	2
13	15134	Washer	4
14	124359	Clamp	1

ENGINE CONTROL (FIGURE 4-11) GASOLINE (S/N F006D05320 →)



HP080163

ENGINE CONTROL
GASOLINE (S/N F006D05320 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	a 2036694	Wire Harness (Gasoline) (☞ Figure 4-47).....	1
1	b 2046793	Wire Harness (Gasoline) (☞ Figure 4-47).....	1
1	c 2049783	Wire Harness (Gasoline)	1
2	292502	Capscrew	3
3	b 2043447	Electronic Control Module	1
3	c 2049994	Electronic Control Module	1
4	1654578	Relay (Latch) (Fuel Pump)	1
4	1654579	Clip (Relay)	1
5	1330293	Cover (Fuse) (Fuse)	2
6	320155	Washer	2
7	302398	Locknut	2
8	302247	Capscrew	2
9	16598	Capscrew	1
10	15134	Washer	2
11	15156	Lockwasher	2
12	136681	Capscrew	1
13	1376661	Clip	1
14	370647	Fuse (10 Amp)	2
15	1339444	Clip	2
16	1512440		
	302399	Nut	3
17	292501	Capscrew	3
18	320156	Washer	3
19	1460774	Bracket	1
20	176640	Bolt	2
21	320158	Washer	1
22	239503	Nut	2
23	292681	Lockwasher	2
24	302251	Capscrew	2
25	320155	Washer	2
26	1520644	Sensor (MAP)	1
27	302398	Locknut	2
28	1386191	Ignition Coil	1
29	302400	Nut	1
30	1385873	Strap	1
31	320158	Washer	1
32	129563	Strap Clamp	AR

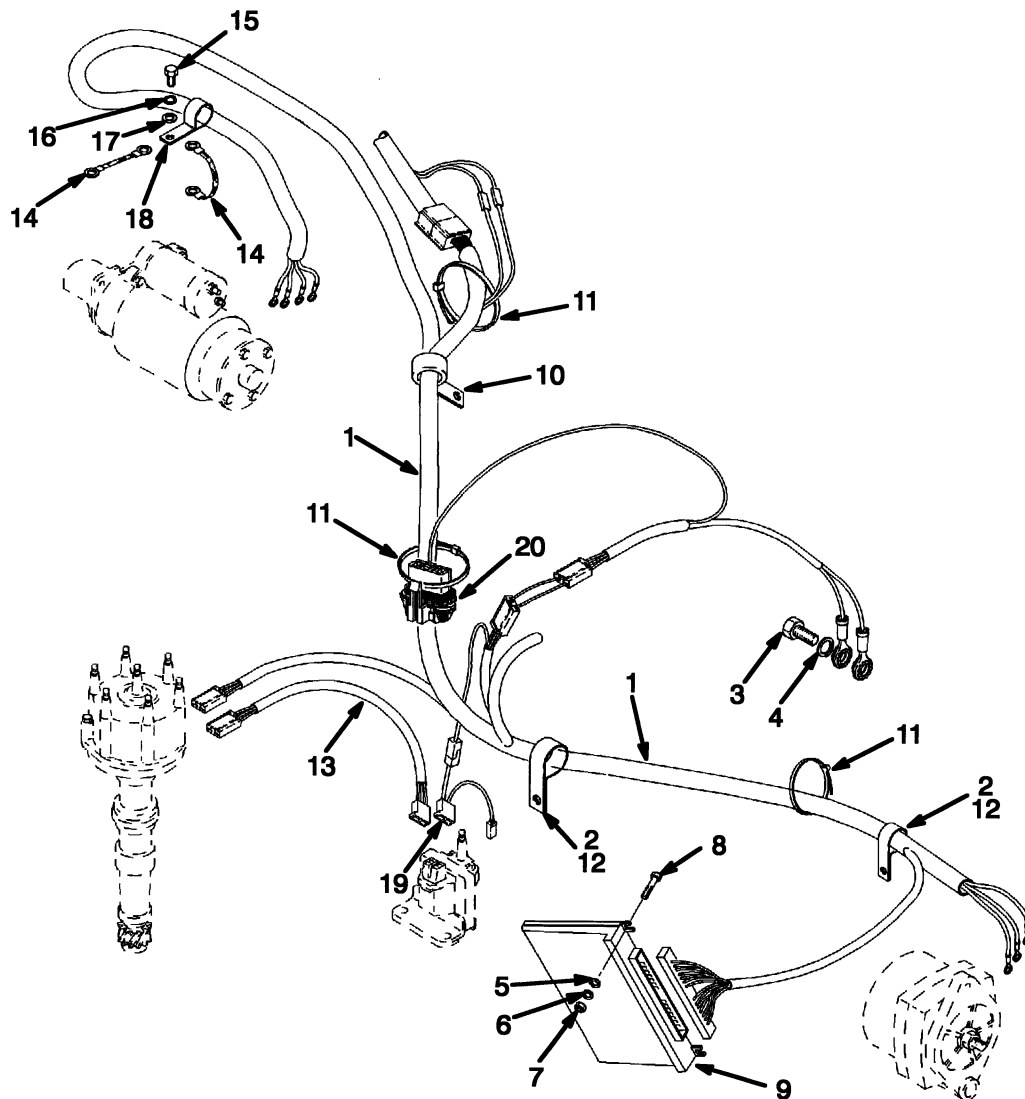
FOOTNOTES:

a S/N F006D05320 ↔ S/N F006D06520
b S/N F006D06521 ↔ S/N F006V001792Z

c S/N F006V01793Z →

ELECTRICAL SYSTEM (FIGURE 4-12)

LPG (S/N F006A07083 →) (S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)



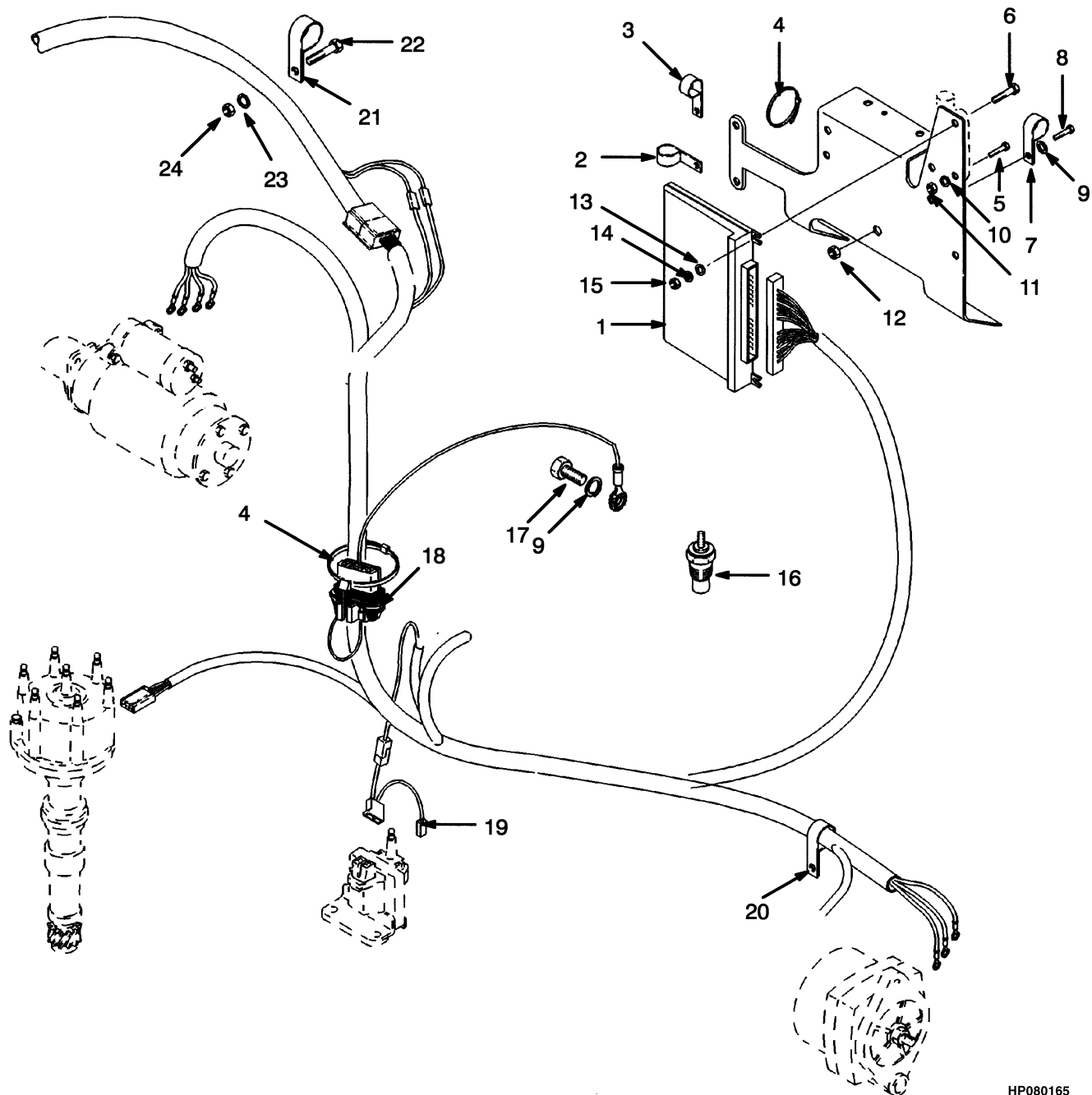
HP080164

ELECTRICAL SYSTEM**LPG (S/N F006A07083 →) (S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)**

ITEM	PART NO.	DESCRIPTION	QTY
1	1335002	Wire Harness	1
2	370281	Clamp	2
3	16805	Capscrew	1
4	15156	Lockwasher	1
5	320156	Washer	3
6	292680	Washer	3
7	136687	Nut	3
8	292501	Capscrew	3
9	1357061	Controller (2300 RPM)	1
9	1357062	Controller (2100 RPM)	1
9	1357063	Controller (1900 RPM)	1
9	1460765	Kit-Msts Module (Standard)	1
10	146047	Clamp	1
11	114312	Strap Clamp	3
12	280472	Sealant	AR
13	275494	Conduit	AR
14	362416	Wire	2
15	287854	Capscrew	2
16	388049		
	292682	Lockwasher	2
17	320159	Washer	1
18	370281	Clamp	2
19	1339403	Wire Harness (From Coil) (Coil)	1
20	1323584	Connector (Initial Timing, LPG) (Timing)	1
	1357057	Governor Controller (1900 RPM) (1900 RPM)	1
	1357056	Governor Controller (2100 RPM)	1
	1357055	Governor Controller (2300 RPM)	1

ELECTRICAL CONTROL (FIGURE 4-13)

LPG (S/N F006D02948 → INC. 2936 EXC. 2960, 2976)



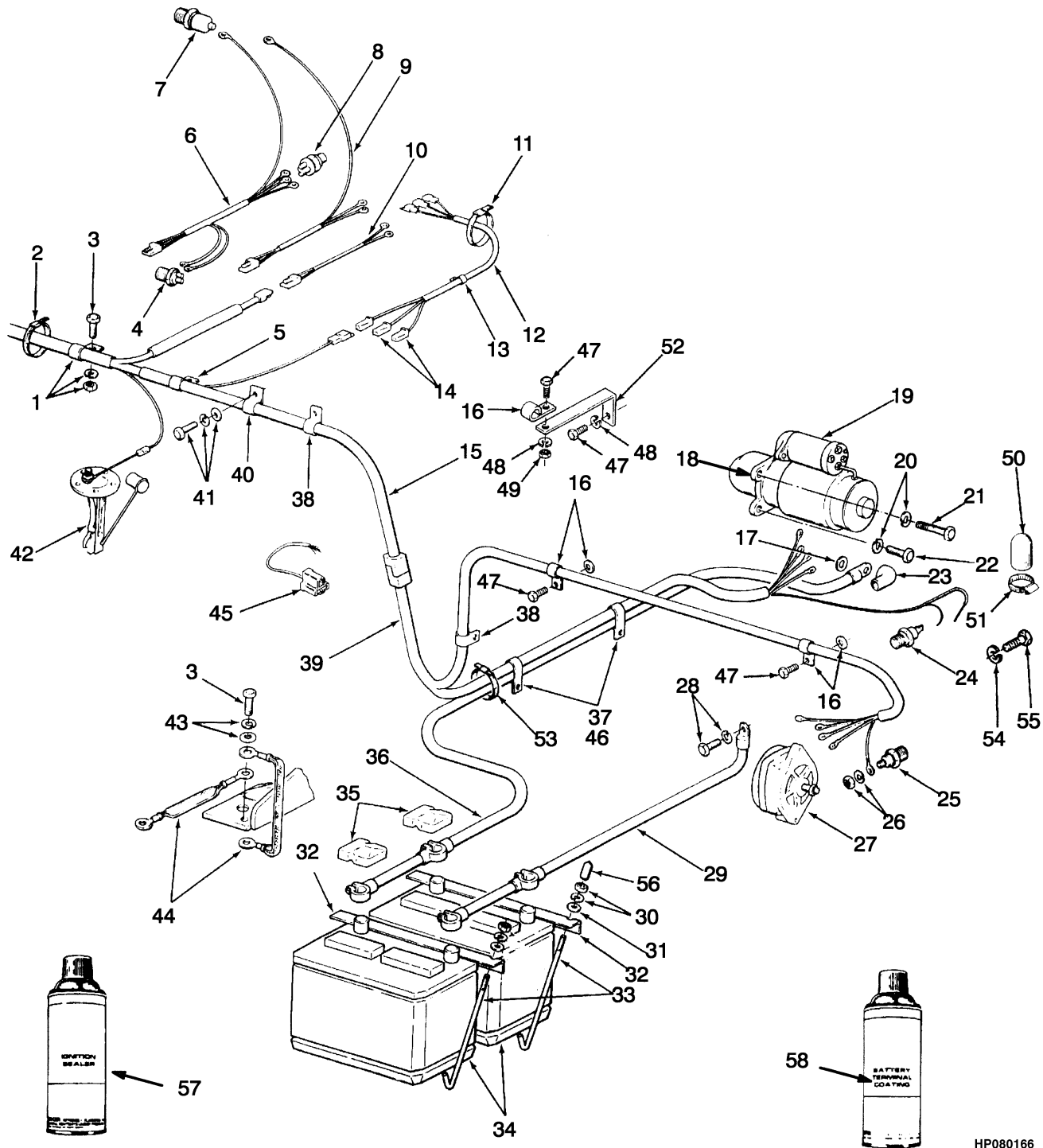
HP080165

ELECTRICAL CONTROL **LPG (S/N F006D02948 → INC. 2936 EXC. 2960, 2976)**

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1383269	Controller (Standard)	1
1	b 1460766	Kit-Msts Module (Standard)	1
1	1357057	Governor Controller (1900 RPM) (1900 RPM)	1
1	1357056	Governor Controller (2100 RPM)	1
1	1357055	Governor Controller (2300 RPM)	1
1	1383268	Label	1
2	1347202	Clamp	1
3	1310611	Clamp	1
4	114312	Strap Clamp	2
5	302243	Capscrew	1
6	292501	Capscrew	2
7	173247	Clamp	1
8	16805	Capscrew	1
9	15156	Lockwasher	2
10	320155	Washer	1
11	292679	Washer	1
12	15056	Nut	1
13	320156	Washer	4
14	292680	Washer	2
15	136687	Nut	2
16	1333827	Temperature Sender	1
17	16805	Capscrew	1
18	1323584	Connector (Initial Timing, LPG)	1
19	1339403	Wire Harness (From Coil)	1
20	146047	Clamp	1
21	89220	Clamp	1
22	18535	Capscrew	1
23	320159	Washer	1
24	388049		
	292682	Lockwasher	1
	1358268	Kit-Governor Controller (1900 RPM)	1
	1358269	Kit-Governor Controller (2100 RPM)	1
	1358270	Kit-Governor Controller (2300 RPM)	1

FOOTNOTES:**a** → S/N F006D04791**b** S/N F006D04792 →

ELECTRICAL SYSTEM (FIGURE 4-14) DIESEL (→ S/N F006D04442V)



HP080166

ELECTRICAL SYSTEM
DIESEL (→ S/N F006D04442V)**KEY:****A: Oil Clutch****B: Powershift**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	136692	Nut	1	1
1	153069	Clamp	1	1
1	388049			
	292682	Lockwasher	1	1
2	129563	Strap Clamp	1	1
3	287854	Capscrew	2	2
4	b 196506	Pressure Switch (Brake Switch)	..	1
5	153070	Clamp	..	1
6	bg 365921	Wire Harness	..	1
6	blr 1312702	Wire Harness (Neutral Start)	..	1
7	g 285123	Temperature Sender	..	1
7	lr 1322627	Switch (Oil Temperature Warning)	..	1
8	g 176409	Switch (Neutral Start)	1	1
8	lr 1322668	Switch (Neutral Start)	1	1
9	g 365922	Wire Harness (Forward/Reverse Lever)	..	1
9	lr 1312703	Wire Harness (Neutral Start) (Forward/Reverse Lever)	..	1
10	g 365922	Wire Harness	1	..
10	lr 1312703	Wire Harness (Neutral Start)	1	..
12	bg 362417	Wire Harness	..	1
12	blr 1322661	Wire Harness	..	1
13	b 124297	Clamp	..	1
14	b 181045	Connector Body	..	2
15	f 365916	Wire Harness (Frame)	1	1
15	j 377363	Wire Harness (Frame)	1	1
15	h 1312701	Wire Harness (Frame)	1	1
15	on 1324997	Wire Harness (Main)	1	1
16	f 128408	Clamp	2	2
16	j 128408	Clamp	4	4
16	f 15134	Washer	2	2
16	qn 388049			
	292682	Lockwasher	4	4
16	qn 320159	Washer	3	3
17	388049			
	292682	Lockwasher	1	1
18	264159	Adhesive	AR	AR
19	e 326460	Starter (☞ Figure 4-24).....	1	1
20	15156	Lockwasher	3	3
21	18542	Capscrew	2	..
22	16828	Capscrew	1	3
23	204223	Boot	1	1
24	a 190252	Pressure Switch	1	1
25	ai 1311400	Temperature Sender	1	1
25	af 1315441	Temperature Sender	1	1
25	apn 1319175	Temperature Sender	1	1
25	273338	Thread Sealant	AR	..

ELECTRICAL SYSTEM
DIESEL (→ S/N F006D04442V)**KEY:****A:** Oil Clutch**B:** Powershift

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
25	aj 377396	Temperature Sender	1	1
26	f 15002	Nut	1	1
26	f 15931	Lockwasher	1	1
27	c 339599	Alternator (☞ Figure 4-26).....	1	1
27	d 385656	Alternator (☞ Figure 4-28).....	1	1
28	f 15156	Lockwasher	1	1
28	f 18536	Capscrew	1	1
29	366682	Battery Cable (Negative)	1	1
30	136687	Nut	4	4
30	292680	Washer	4	4
31	320156	Washer	4	4
32	309152	Battery Hold Down	2	2
33	309124	Battery Hold Down	4	4
34	1383331	Start Battery Wet (Wet)	2	2
34	146938	Start Battery Wet (Wet) (Optional)	2	2
34	177894	Start Battery Dry (Dry) (Optional)	2	2
35	257241	Boot	2	2
36	350144	Battery Cable (Positive)	1	1
37	f 110322	Clamp	2	2
38	f 89220	Clamp	2	2
39	f 386382	Wire Harness	1	1
39	j 1319372	Wire Harness	1	1
39	km 1322637	Wire Harness	1	1
40	89220	Clamp	1	..
41	18535	Capscrew	2	..
41	388049	Lockwasher	2	..
41	320159	Washer	2	..
42	1322232	Sender (☞ Figure 3-9).....	1	1
43	388049	Lockwasher	1	1
43	320159	Washer	1	1
44	362416	Wire	2	2
45	qn 377364	Wire Harness	1	1
46	qn 298132	Clamp	2	2
47	qn 292514	Capscrew	5	5
48	qn 388049	Lockwasher	5	5
49	qn 136692	Nut	1	1
50	qn 1319355	Boot	1	1
51	qn 130845	Clamp	1	1
52	qn 381931	Bracket	1	1
53	qn 129563	Strap Clamp	2	2
54	qn 292681	Lockwasher	1	1
55	qn 287851	Capscrew	1	1

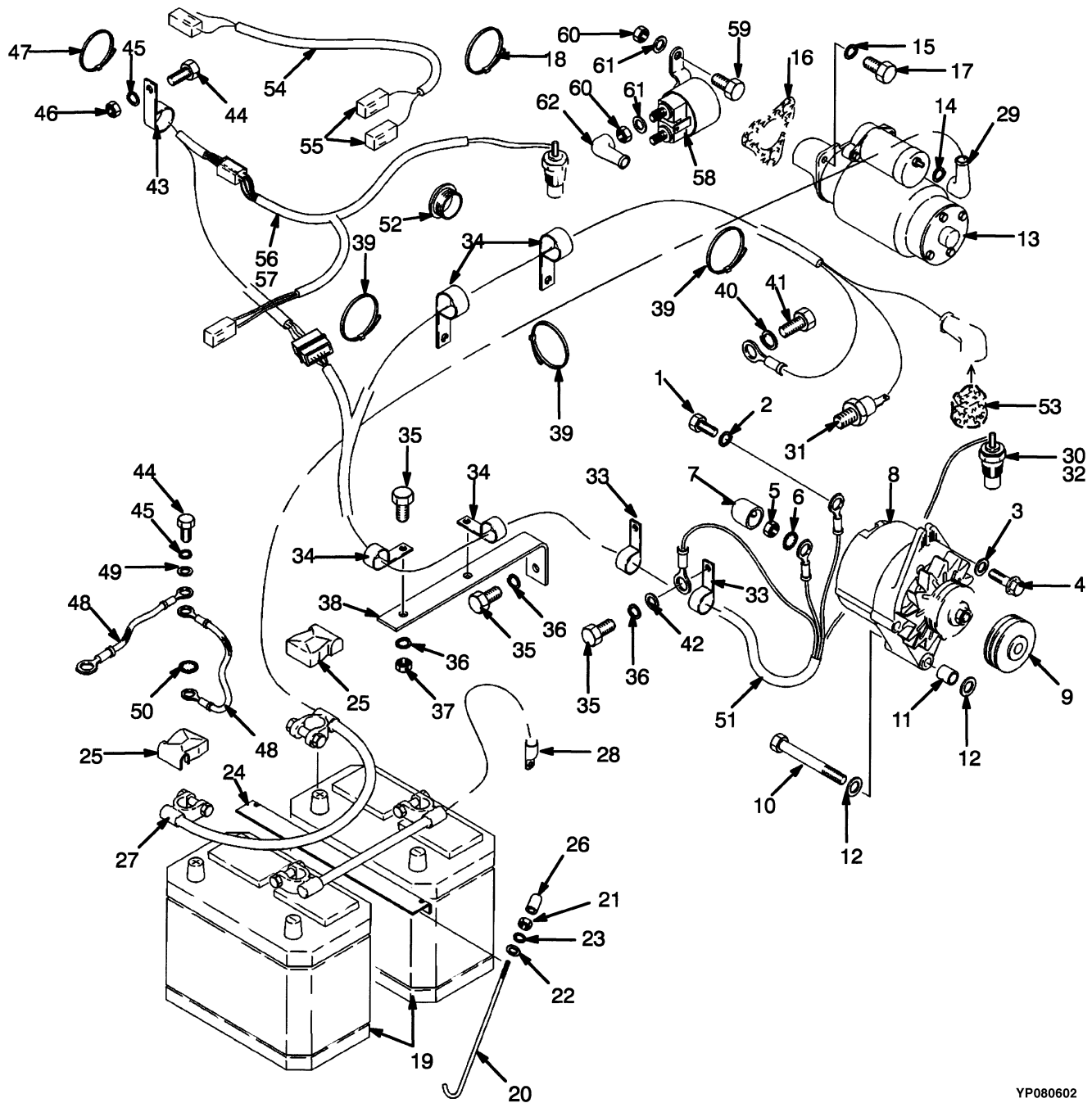
ELECTRICAL SYSTEM
DIESEL (→ S/N F006D04442V)**KEY:****A: Oil Clutch****B: Powershift**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
56	1326939	Cap	4	4
57	178295	Ignition Sealer	AR	AR
58	178296	Battery Terminal Coating	AR	AR

FOOTNOTES:

a	Engine	j	S/N F006A03040 ↔ S/N F006A03790
b	Monotrol Pedal	k	S/N F006A03791K ↔ S/N F006A09744V
c	Remanufactured Alternator 3012611 R	l	S/N F006D01501 ↔ S/N F006D004442
d	Remanufactured Alternator 3020077 R	m	S/N F006D01501 ↔ S/N F006D04442V
e	Remanufactured Starter 3001265 R	n	S/N F006D01501 →
f	→ S/N F006A03039	o	S/N F006A05276 →
g	→ S/N F006A03790	p	S/N F006A05439 →
h	S/N F006A03791 ↔ S/N F006A05275	q	S/N F006A03040 →
i	S/N F006A03791 ↔ S/N F006A05438	r	S/N F006A03791 →

ELECTRICAL SYSTEM (FIGURE 4-15) DIESEL — WITH POWERSHIFT (S/N F006D04443V ↔ S/N F006V01611Y)



YP080602

ELECTRICAL SYSTEM

DIESEL – WITH POWERSHIFT (S/N F006D04443V ↔ S/N F006V01611Y)

ITEM	PART NO.	DESCRIPTION	QTY
1	136681	Capscrew	1
2	292681	Lockwasher	1
3	350818	Washer	1
4	329067	Screw	1
5	136687	Nut	1
6	296359	Washer	1
7	157065	Boot	1
8	ab 1358911	Alternator	1
9	1310277	Pulley	1
10	292523	Capscrew	1
11	1345014	Sleeve	1
12	1318306	Washer	2
13	1453060	Starter	1
14	388049		
	292682	Lockwasher	1
15	15156	Lockwasher	3
16	264159	Adhesive	AR
17	16815	Capscrew	3
18	2033612	Strap Clamp (Monotrol)	2
19	1383331	Start Battery Wet	2
19	146938	Start Battery Wet (Wet) (Optional)	2
19	177894	Start Battery Dry (Dry) (Optional)	2
20	309124	Battery Hold Down	4
21	136687	Nut	4
22	320156	Washer	4
23	292680	Washer	4
24	309152	Battery Hold Down	2
25	257241	Boot	2
26	1326939	Cap	4
27	350144	Battery Cable (Positive)	1
28	366682	Battery Cable (Negative)	1
29	204223	Boot	1
30	1319175	Temperature Sender	1
31	190252	Pressure Switch	1
32	246108	Sealant	AR
33	128408	Clamp	2
34	298132	Clamp	4
35	292514	Capscrew	5
36	388049		
	292682	Lockwasher	5
37	136692	Nut	2
38	1455154	Bracket	1
39	2033612	Strap Clamp	3
40	292681	Lockwasher	1
41	292514	Capscrew	5
42	320159	Washer	2
43	153069	Clamp	1
44	287854	Capscrew	2
45	388049		
	292682	Lockwasher	2

ELECTRICAL SYSTEM
DIESEL – WITH POWERSHIFT (S/N F006D04443V ↔ S/N F006V01611Y)

ITEM	PART NO.	DESCRIPTION	QTY
46	136692	Nut	1
47	2033612	Strap Clamp	1
48	362416	Wire	2
49	320159	Washer	1
50	296361	Washer	1
51	c 1452865	Wire Harness (Diesel Engine)	1
51	de 1479106	Wire Harness (Engine)	1
52	1358738	Plug	1
53	322784	Lubricant (Corrosion Preventive)	AR
54	1339440	Wire Harness (Monotrol)	1
55	181045	Connector Body (Monotrol)	1
56	1312702	Wire Harness (Neutral Start) (Monotrol)	1
57	1312703	Wire Harness (Neutral Start) (Forward/Reverse)	1
58	1454967	Relay (Fuel Lift Pump, Starter Solenoid and Glow Plug) (Starter)	1
59	292500	Capscrew	2
60	313805	Nut	4
61	320156	Washer	4
62	190382	Boot	2

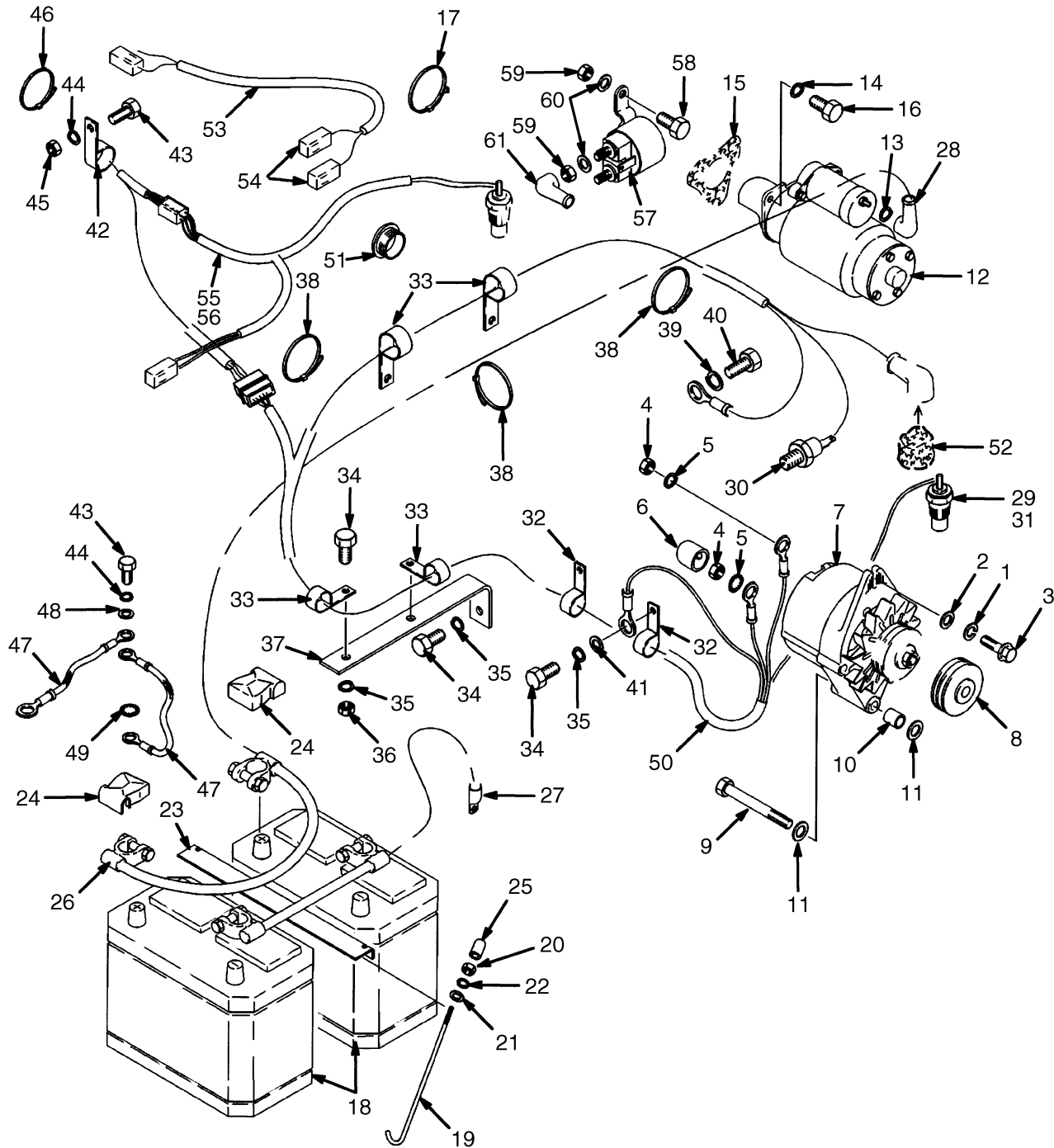
FOOTNOTES:

- | | |
|---|---|
| a Service with Alternator 1469598 and Jumper 1469601 | d S/N F006D05869X ↔ S/N F006D06549Y INC. 06558 EXC. 06521, 06546 |
| b → S/N F006D06548Y EXC. 6521, 6546 | e S/N F006V01501 ↔ S/N F006V01611Y |
| c S/N F006D04443V ↔ S/N F006D05868V | |

NOTES

[illegible]

ELECTRICAL SYSTEM (FIGURE 4-16) DIESEL — WITH POWERSHIFT (S/N F006V01612Y →)



BP080228

ELECTRICAL SYSTEM **DIESEL – WITH POWERSHIFT (S/N F006V01612Y →)**

ITEM	PART NO.	DESCRIPTION	QTY
1	292681	Lockwasher	1
2	320157	Washer	1
3	176640	Bolt	1
4	136687	Nut	2
5	296359	Washer	2
6	157065	Boot	1
7	1469598	Alternator	1
7	1469601	Wire (Alternator To Engine Harness)	1
8	1310277	Pulley	1
9	16815	Capscrew	1
10	1345014	Sleeve	1
11	1318306	Washer	2
12	1453060	Starter	1
13	388049		
	292682	Lockwasher	1
14	15156	Lockwasher	3
15	264159	Adhesive	AR
16	16815	Capscrew	3
17	2033612	Strap Clamp (Monotrol Pedal)	2
18	1383331	Start Battery Wet	2
18	146938	Start Battery Wet (Wet) (Optional)	2
18	177894	Start Battery Dry (Dry) (Optional)	2
19	309124	Battery Hold Down	4
20	136687	Nut	4
21	320156	Washer	4
22	292680	Washer	4
23	309152	Battery Hold Down	2
24	257241	Boot	2
25	1326939	Cap	4
26	350144	Battery Cable (Positive)	1
27	366682	Battery Cable (Negative)	1
28	204223	Boot	1
29	1319175	Temperature Sender	1
30	190252	Pressure Switch	1
31	246108	Sealant	AR
32	128408	Clamp	2
33	298132	Clamp	4
34	292514	Capscrew	5
35	388049		
	292682	Lockwasher	5
36	136692	Nut	2
37	1455154	Bracket	1
38	2033612	Strap Clamp	3
39	292681	Lockwasher	1
40	292514	Capscrew	5
41	320159	Washer	2
42	153069	Clamp	1
43	287854	Capscrew	2
44	388049		
	292682	Lockwasher	2

ELECTRICAL SYSTEM

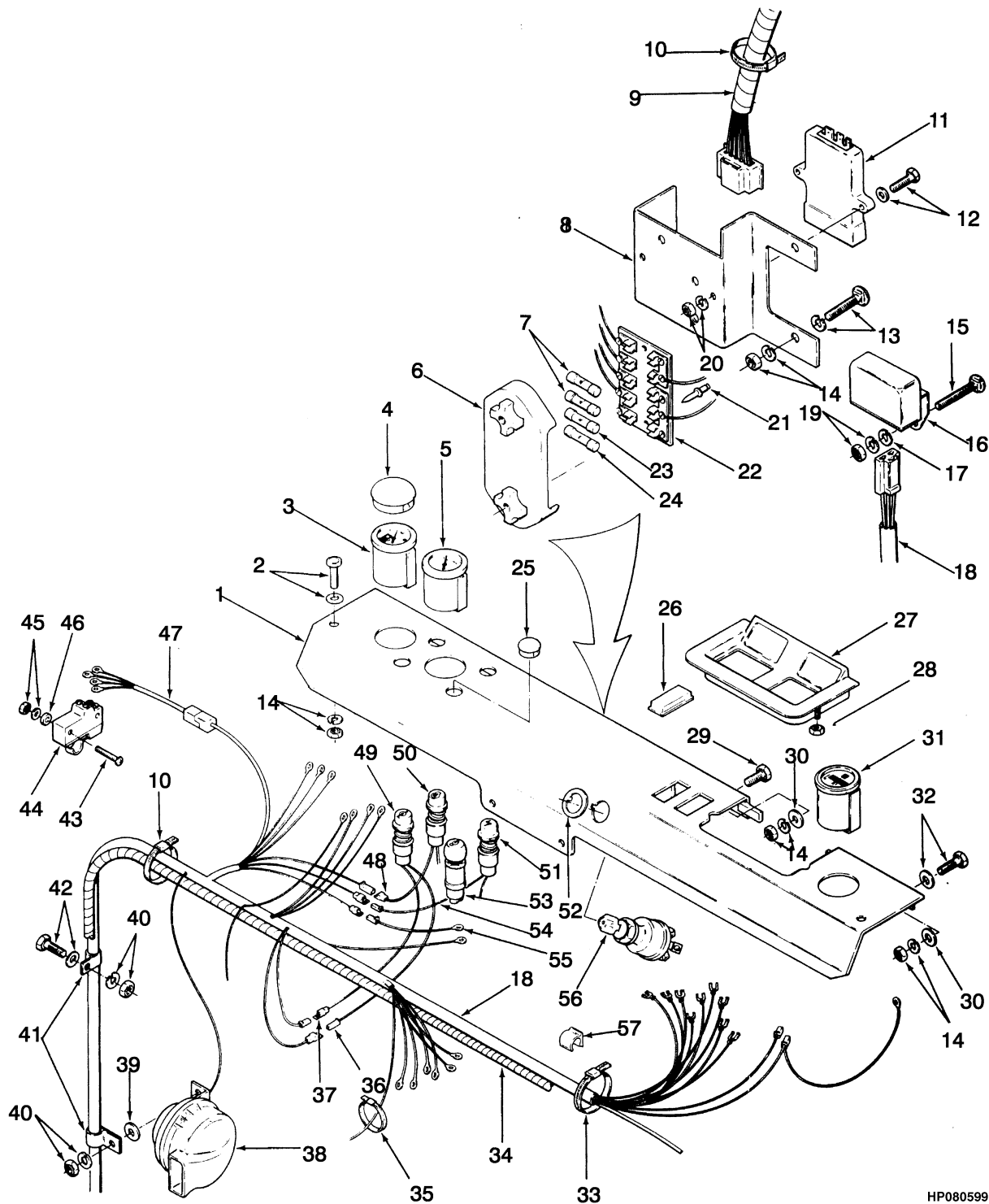
DIESEL – WITH POWERSHIFT (S/N F006V01612Y →)

ITEM	PART NO.	DESCRIPTION	QTY
45	136692	Nut	1
46	2033612	Strap Clamp	1
47	362416	Wire	2
48	320159	Washer	1
49	296361	Washer	1
50	2046794	Wire Harness (Engine)	1
51	1358738	Plug	1
52	322784	Lubricant (Corrosion Preventive)	AR
53	1339440	Wire Harness (Monotrol Pedal)	1
54	181045	Connector Body (Monotrol Pedal)	1
55	1312702	Wire Harness (Neutral Start) (Monotrol Pedal)	1
56	1312703	Wire Harness (Neutral Start) (Forward/Reverse Lever)	1
57	1454967	Relay (Fuel Lift Pump, Starter Solenoid and Glow Plug)	1
58	292500	Capscrew	2
59	313805	Nut	4
60	320156	Washer	4
61	190382	Boot	2

NOTES

[illegible]

INSTRUMENT PANEL (FIGURE 4-17) (→ S/N F006A03790)



HP080599

INSTRUMENT PANEL

(→ S/N F006A03790)

KEY:**A: Gasoline****B: LPG****C: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	349291	Instrument Panel	1	1	1
2	15127	Washer	2	2	2
2	353144	Capscrew	2	2	2
3	169775	Fuel Gauge	1	..	1
4	369233	Plug	..	1	..
5	285122	Temperature Gauge	1	1	1
6	370293	Cover	1	1	1
7	53123	Fuse (5 Amp)	2	2	2
8	374037	Bracket	1	1	..
9	374035	Wire Harness (Governor)	1	1	..
10	114312	Strap Clamp	5	5	..
11	1302131	Governor Controller	1	1	..
12	197067	Washer	2	2	..
12	220498	Screw	2	2	..
13	293780	Lockwasher	2	2	2
13	372972	Bolt	2	2	2
14	136687	Nut	8	8	8
14	292680	Washer	8	8	8
15	308980	Bolt	2	2	2
16	157554	Relay	1	1	1
17	293780	Lockwasher	2	2	2
18	365915	Wire Harness	1	1	1
19	136687	Nut	2	2	2
19	292680	Washer	2	2	2
20	15052	Nut	2	2	2
20	15152	Lockwasher	2	2	2
21	170658	Rivet	2	2	2
22	350142	Fuse Block	1	1	1
22	350143	Label (Fuses)	1	1	1
23	53124	Fuse (10 Amp)	1	1	1
24	21778	Fuse (20 Amp)	..	..	1
25	a 339528	Plug	1	1	..
25	c 339528	Plug (Oil Clutch)	2	2	1
25	b 350498	Plug	1	1	..
26	374046	Plug	2	2	2
27	352985	Bezel	1	1	1
28	352987	Nut	2	2	2
29	292501	Capscrew	3	3	3
30	15127	Washer	4	4	4
31	275648	Hourmeter	1	1	1
32	292501	Capscrew	1	1	1
32	296359	Washer	1	1	1
33	137852	Strap Clamp	1	1	1
34	374035	Wire Harness (Governor)	1	1	..

INSTRUMENT PANEL
(→ S/N F006A03790)**KEY:****A:** Gasoline**B:** LPG**C:** Diesel

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
35	129563	Strap Clamp	2	2	2
36	a 181046	Connector Body	1	1	1
37	a 181045	Connector Body	1	1	1
38	1511904	Horn	1	1	1
39	320159	Washer	2	2	2
40	239503	Nut	2	2	2
40	292681	Lockwasher	2	2	2
41	153069	Clamp	2	2	2
42	136749	Screw	1	1	1
42	320158	Washer	1	1	1
43	b 86510	Screw	2	2	2
44	b 88388	Microswitch	1	1	1
45	b 138573	Washer	2	2	2
45	b 15049	Nut	2	2	2
46	b 316132	Spacer	1	1	1
47	b 362414	Wire Harness	1	1	1
48	181045	Connector Body	1	1	1
49	a 134810	Terminal	1	1	1
49	a 134812	Terminal	1	1	1
49	a 358178	Indicator Light (Oil Temperature)	1	1	1
49	a 362108	Bulb	1	1	1
50	134810	Terminal	1	1	1
50	148604	E-Ring	1	1	1
50	358177	Indicator Light (Oil Pressure)	1	1	1
50	362108	Bulb	1	..	..
51	134812	Terminal	1	1	1
51	148604	E-Ring	1	1	1
51	358179	Indicator Light (Ampmeter)	1	1	1
51	362108	Bulb	1	1	1
52	353101	Washer	1	1	1
53	287163	Switch (Thermostat)	..	..	1
54	181046	Connector Body	1	1	1
55	362415	Wire	..	..	1
56	186304	Key	1	1	1
56	272041	Ignition Switch	1	1	1
57	241878	Clamp	2	2	2

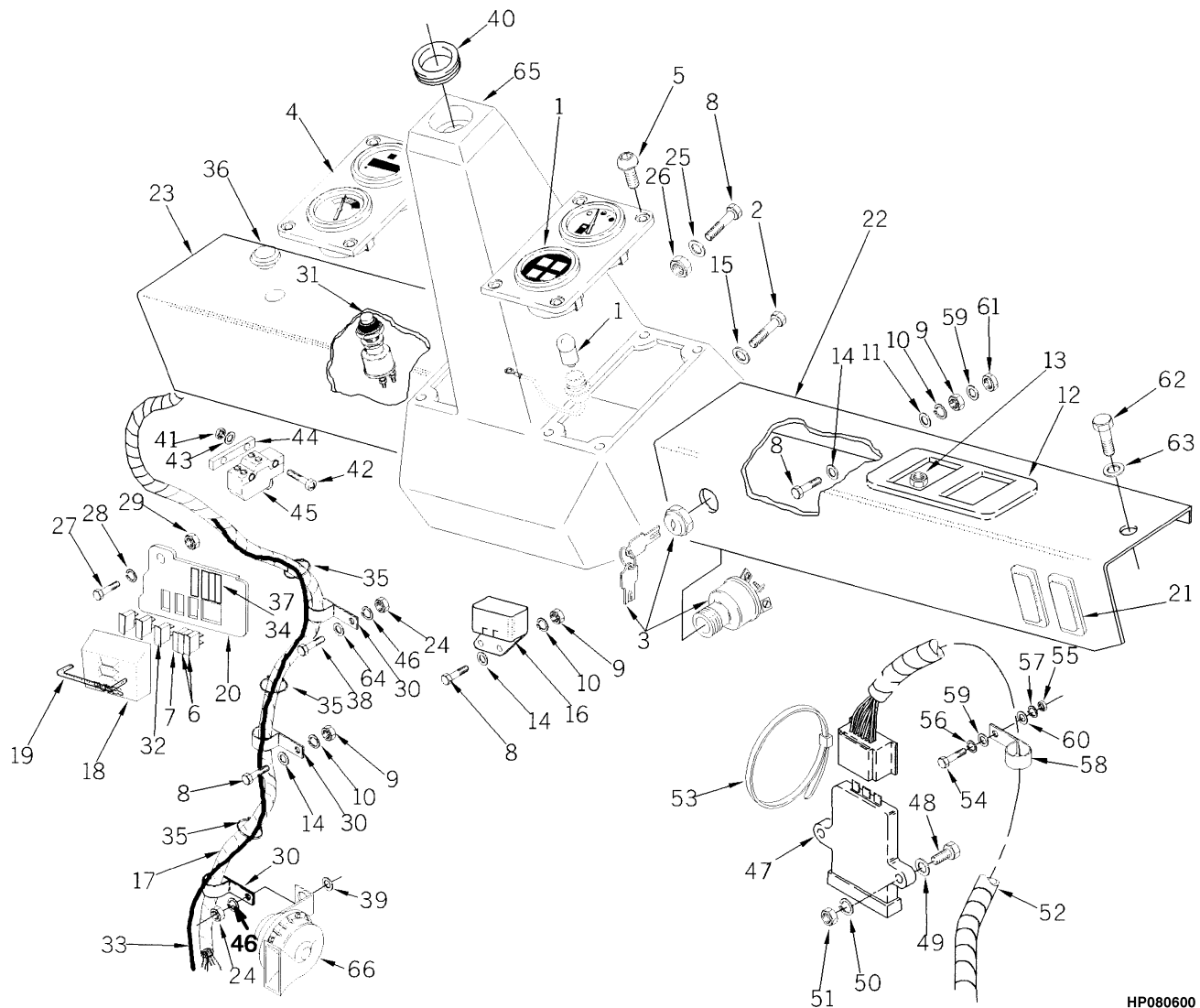
FOOTNOTES:**a** Forward/Reverse Lever and Monotrol Pedal**c** → S/N F006D03779**b** Powershift (Monotrol Pedal)

NOTES

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INSTRUMENT PANEL (FIGURE 4-18)

(S/N F006A03791 ↔ S/N F006A07082)



HP080600

INSTRUMENT PANEL

(S/N F006A03791 ↔ S/N F006A07082)

KEY:**A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1346745	Instrument Cluster -Gas and Diesel (RH) (☞Figure 4-20).....	..	1
1	370473	Instrument Cluster (RH) (LPG) (☞Figure 4-20).....	1	..
1	1346708	Instrument Cluster -Gas (RH) (☞Figure 4-20).....	1	..
2	370599	Capscrew	2	2
3	379902	Ignition Switch	1	1
3	186304	Key	1	1
4	g 1324313	Instrument Cluster (LH) (☞Figure 4-20).....	1	1
4	1312338	Temperature Gauge (Engine Coolant Water Temperature)	1	1
4	1312339	Gasket	2	2
4	1312340	Bracket	2	2
4	1312473	Bezel	1	1
4	1479807	Hourmeter	1	1
4	15049	Nut	3	3
4	16743	Lockwasher	3	3
4	18419	Lockwasher	6	6
4	227131	Screw	6	6
4	367953	Connector Body (Pin)	1	1
4	367966	Pin	3	3
4	d 370471	Instrument Cluster (LH)	1	1
5	370676	Screw	8	8
6	370646	Fuse (5 Amp)	2	2
7	370647	Fuse (10 Amp)	1	1
8	b 292501	Capscrew	4	4
8	e 292502	Capscrew	4	4
9	136687	Nut	8	8
10	292680	Washer	8	8
11	197068	Washer	4	4
12	352985	Bezel	1	1
13	352987	Nut	2	2
14	296359	Washer	6	6
15	e 1300117	Washer	2	2
15	b 1300117	Washer	4	4
16	157554	Relay	1	1
17	1324997	Wire Harness (Main)	1	1
18	370863	Cover	1	1
19	370864	Cover Latch	1	1
20	1320659	Bracket	1	1
21	374046	Plug	2	2
22	1346713	Instrument Panel (RH)	1	1
23	1346715	Panel (LH)	1	1
24	239503	Nut	2	2
25	320156	Washer	4	4
26	4512440			
	302399	Nut	1	1
27	16836	Capscrew	1	1

INSTRUMENT PANEL

(S/N F006A03791 ↔ S/N F006A07082)

KEY:**A:** Gasoline and LPG**B:** Diesel

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
28	15155	Lockwasher	1	1
29	376397	Retainer	1	1
30	89220	Clamp	2	2
31	370776	Switch (Momentary)	..	1
32	370648	Fuse (20 Amp)	..	1
33	1322652	Wire Harness	..	1
34	1323597	Label (Diesel Fuses)	..	1
35	129563	Strap Clamp	..	1
36	c 339528	Plug	1	..
36	f 350498	Plug	1	..
37	1323596	Label (Gasoline and LPG Fuses)	1	..
38	136749	Screw	1	1
39	320159	Washer	1	1
40	1320628	Grommet	1	1
41	a 15049	Nut	1	1
42	a 86510	Screw	2	2
43	a 138573	Washer	2	2
44	a 316132	Spacer	1	1
44	a 325704	Washer (Optional)	2	2
45	a 370868	Switch (Park Brake)	1	1
46	292681	Lockwasher	2	2
47	1302131	Governor Controller	1	..
48	302250	Capscrew	2	..
49	197067	Washer	4	..
50	292679	Washer	2	..
51	292668	Nut	2	..
52	1322650	Wire Harness (Governor)	1	..
54	e 136681	Capscrew	1	..
54	292501	Capscrew	1	..
55	136687	Nut	1	..
55	e 239503	Nut	1	..
56	296359	Washer	1	..
56	e 296360	Washer	1	..
57	292680	Washer	1	..
57	e 292681	Lockwasher	1	..
58	146047	Clamp	1	..
59	e 320156	Washer	2	..
60	320157	Washer	1	..
61	1512440			
	302399	Nut	1	..
62	353144	Capscrew	2	2
63	15157	Lockwasher	2	2
64	320158	Washer	1	1
65	e 1320630	Steering Column	1	1
65	370589	Steering Column	1	1

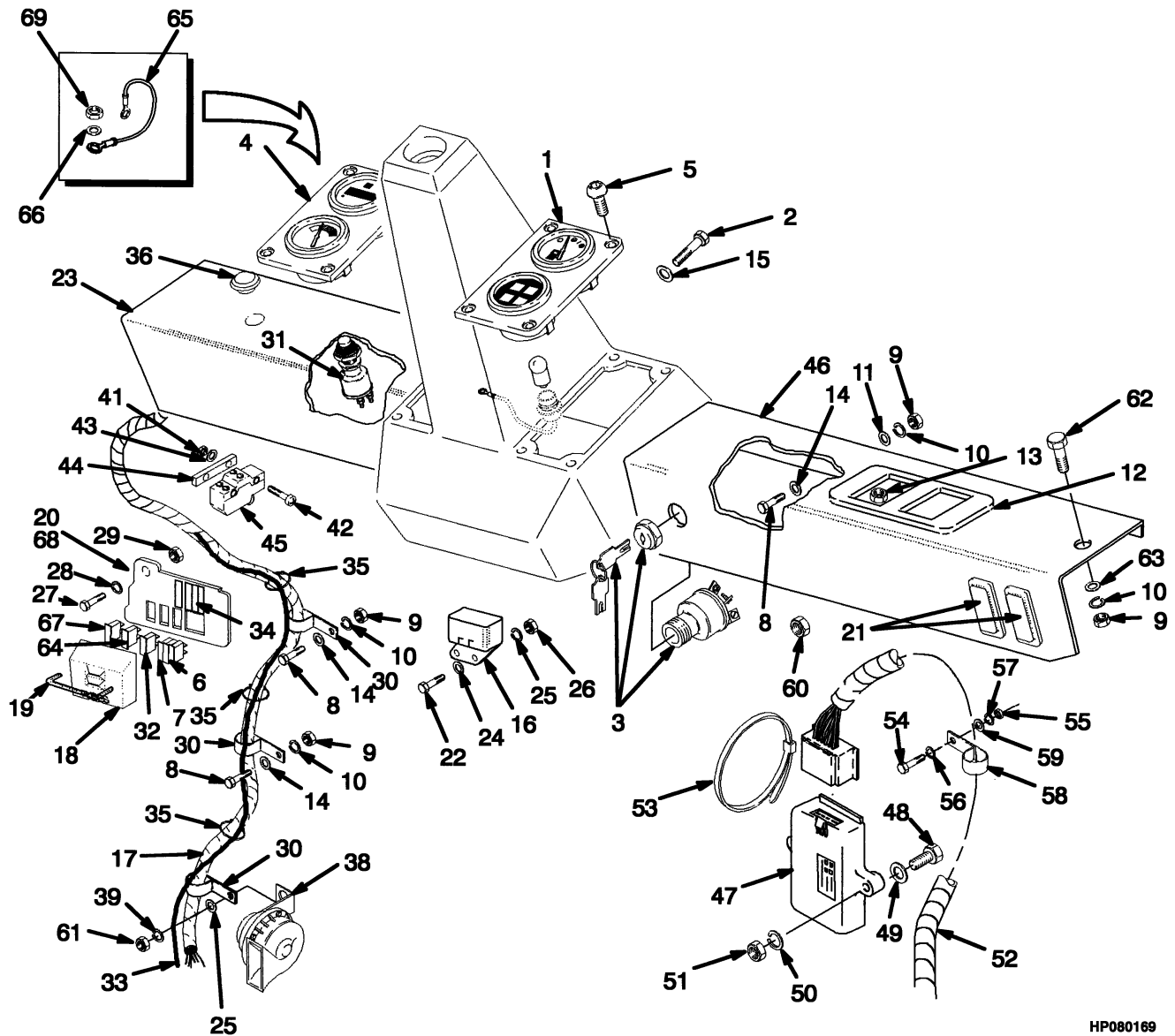
INSTRUMENT PANEL
(S/N F006A03791 ↔ S/N F006A07082)**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
66	1511904	Horn	1	1

FOOTNOTES:**a** Powershift (Monotrol Pedal)**b** → S/N F006A04282**c** → S/N F006A05275**d** → S/N F006A05438**e** S/N F006A04283 →**f** S/N F006A05276 →**g** S/N F006A05439 →

INSTRUMENT PANEL (FIGURE 4-19)
(S/N F006A07083 →) (S/N F006D01501 →)**PARTS SERVICE GRAM**

ITEM	GRAM
47	E-E-45



HP080169

INSTRUMENT PANEL

(S/N F006A07083 →) (S/N F006D01501 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	ab 1346745	Instrument Cluster -Gas and Diesel (RH) (☞ Figure 4-20).....	1
1	ab 1346708	Instrument Cluster -Gas (RH)	1
1	c 370473	Instrument Cluster (RH) (☞ Figure 4-20).....	1
2	370599	Capscrew	4
3	379902	Ignition Switch	1
3	1337197	Key Set	1
4	abc 1324313	Instrument Cluster (LH) (☞ Figure 4-20).....	1
5	370676	Screw	8
6	370646	Fuse (5 Amp)	2
7	1310630	Fuse (15 Amp)	2
8	292502	Capscrew	4
9	136687	Nut	8
10	292680	Washer	8
11	197068	Washer	3
12	352985	Bezel	1
13	352987	Nut	2
14	296359	Washer	8
15	1300117	Washer	4
16	157554	Relay	1
17	1346717	Wire Harness (Main) (☞ Figure 4-35).....	1
17	1346716	Wire Harness (Main) (☞ Figure 4-36).....	1
18	370863	Cover	1
19	370864	Cover Latch	1
20	1337886	Bracket	1
21	374046	Plug	2
22	136749	Screw	1
23	1346715	Panel (LH)	1
24	320158	Washer	1
25	292681	Lockwasher	2
26	239503	Nut	1
27	16836	Capscrew	1
28	15155	Lockwasher	1
29	376397	Retainer	1
30	89220	Clamp	2
31	a 370776	Switch (Momentary)	1
32	a 370648	Fuse (20 Amp)	1
33	a 1322652	Wire Harness	1
34	a 1323597	Label (Diesel Fuses)	1
35	a 129563	Strap Clamp	3
36	bc 350498	Plug	1
37	bc 1383791	Label	1
38	1511904	Horn	1
39	292681	Lockwasher	1
39	320159	Washer	AR
40	239503	Nut	1
41	d 15059	Nut	2
42	d 86510	Screw	2
43	d 138573	Washer	2
44	d 316132	Spacer	1
45	d 370868	Switch (Park Brake)	1

INSTRUMENT PANEL

(S/N F006A07083 →) (S/N F006D01501 →)

ITEM	PART NO.	DESCRIPTION	QTY
46	1346713	Instrument Panel	1
47	c 1335001	Governor Controller (2500 RPM) (Standard)	1
47	c 1357055	Governor Controller (2300 RPM)	1
47	c 1357056	Governor Controller (2100 RPM)	1
47	c 1357057	Governor Controller (1900 RPM) (1900 RPM)	1
48	c 302250	Capscrew	2
49	c 197067	Washer	4
50	c 292679	Washer	2
51	c 292668	Nut	2
52	c 1360971	Wire Harness (Governor) (☞ Figure 4-42).....	1
53	c 114312	Strap Clamp	1
54	c 136681	Capscrew	1
55	c 239503	Nut	1
56	c 296360	Washer	1
57	c 292681	Lockwasher	1
58	c 146047	Clamp	1
59	c 320157	Washer	1
60	c 1512440		
	302399	Nut	1
61	239503	Nut	1
62	353144	Capscrew	2
63	15127	Washer	2
64	1310630	Fuse (15 Amp)	1
65	1346733	Wire	1
66	16743	Lockwasher	1
67	bc 1300057	Fuse (7.5 Amp)	1
68	bc 381846	Fuse Holder	1
69	15049	Nut	1

FOOTNOTES:

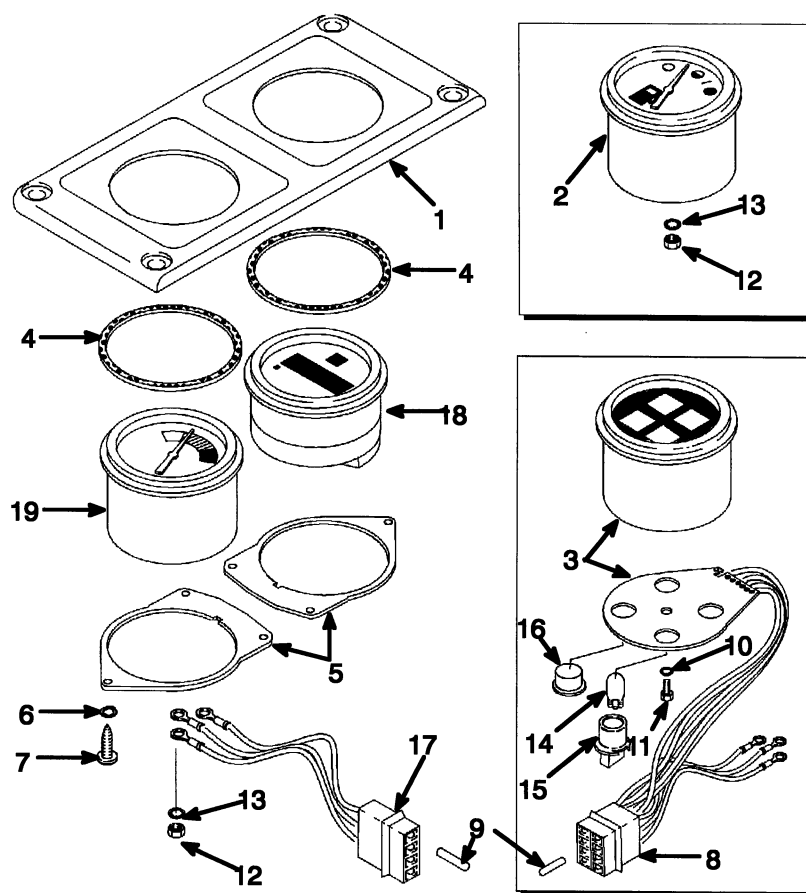
a Diesel
b Gasoline

c LPG
d Monotrol Pedal

NOTES

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GAUGE CLUSTER (FIGURE 4-20)



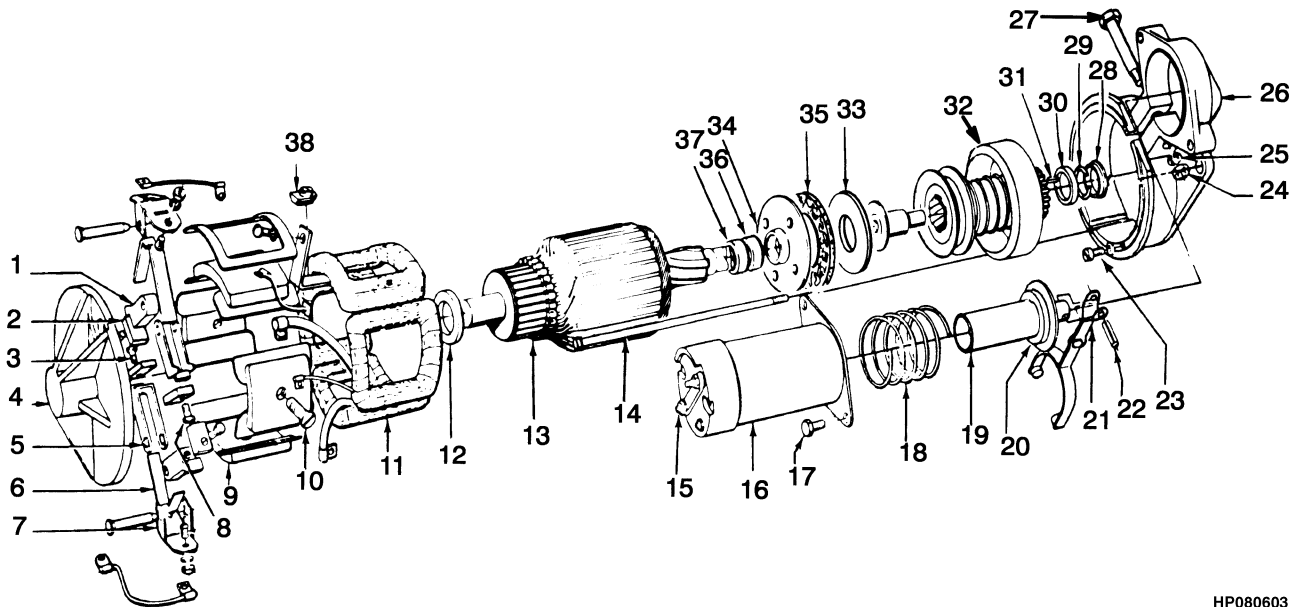
HP080170

GAUGE CLUSTER**KEY:****A: Right Hand Side: Gasoline****B: Right Hand Side: Diesel****C: Right Hand Side: LPG****D: Left Hand Side**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1346708	Instrument Cluster -Gas	1	..	..	..
	1324313	Instrument Cluster	..	..	..	1
	1346745	Instrument Cluster -Gas and Diesel	..	1	..	..
	370473	Instrument Cluster	..	..	1	..
	2035913	Instrument Cluster (Optional)	..	..	..	1
	2035448	Instrument Cluster (Optional)	..	..	1	..
1	1312473	Bezel	1	1	..	1
1	1312474	Bezel	..	..	1	..
1	a 1458291	Bezel	..	..	1	..
2	1312344	Fuel Gauge	1	1	..	..
3	1312345	Light Panel	..	1	1	..
3	1347952	Light Panel	1	..	..	..
4	1312339	Gasket	2	2	1	2
5	1312340	Bracket	2	2	1	2
6	18419	Lockwasher	6	6	3	6
7	227131	Screw	6	6	3	6
8	1317393	Connector Body	1	1	1	..
9	367966	Pin	8	6	5	3
10	15916	Lockwasher	1	1	1	..
11	185806	Screw	1	1	1	..
12	15049	Nut	3	3	..	3
13	16743	Lockwasher	3	3	..	3
14	1320001	Bulb	4	3	4	..
15	1317394	Terminal	4	3	4	..
16	1312348	Plug	..	1	..	..
17	367953	Connector Body	..	..	..	1
18	1479807	Hourmeter	..	..	..	1
19	1329414	Temperature Gauge	..	..	..	1

FOOTNOTES:**a** Used with Gauge Cluster 2035448

STARTER (FIGURE 4-21) GASOLINE AND LPG (→ S/N F006D02739S)



HP080603

STARTER

GASOLINE AND LPG (→ S/N F006D02739S)

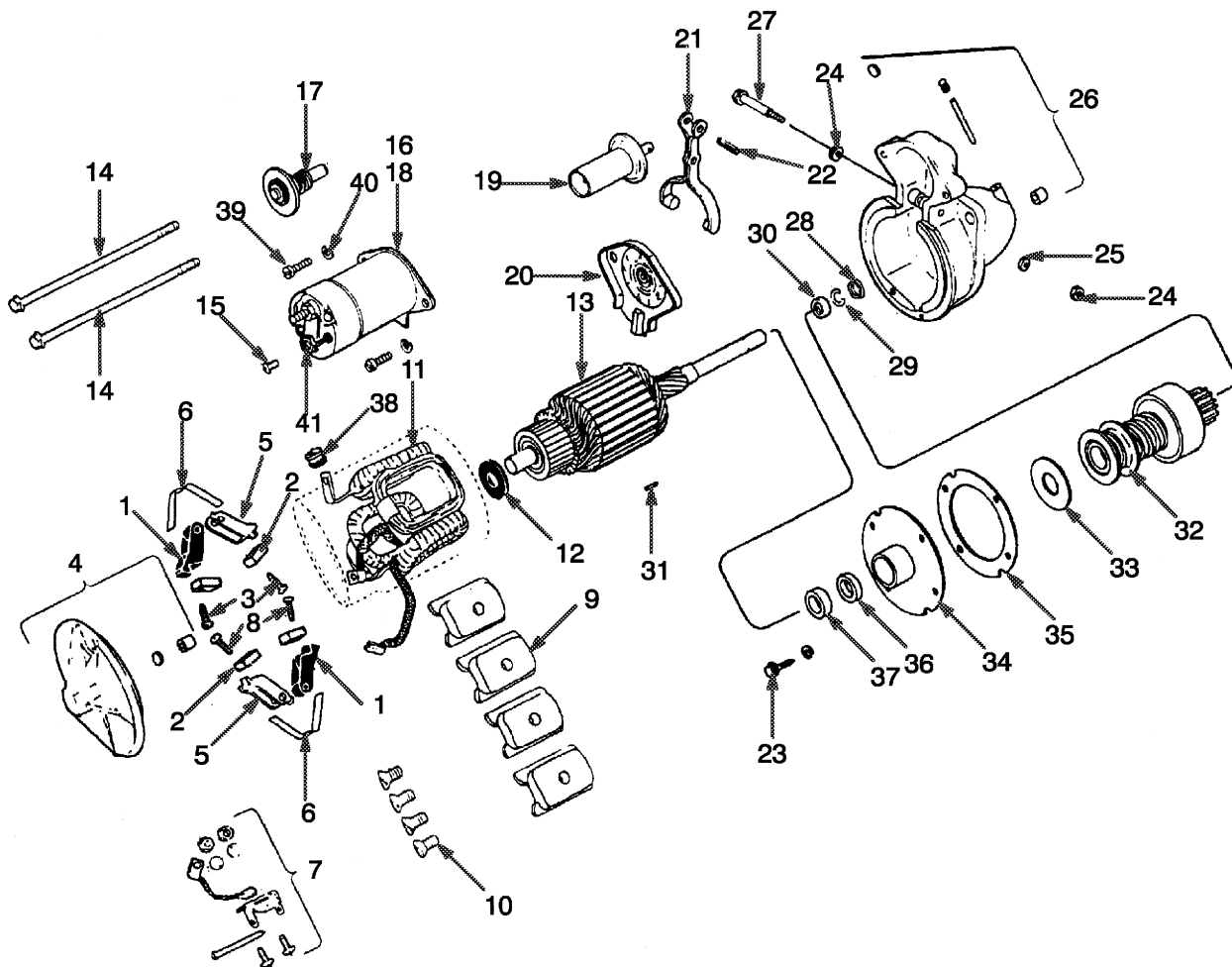
ITEM	PART NO.	DESCRIPTION	QTY
	a 353221	Starter	1
1	354478	Brush Holder	2
2	236066	Brush	4
3	227097	Screw	2
4	288917	End Head (CE)	1
5	88572	Holder	2
6	236069	Spring	2
7	236070	Support	2
8	164507	Screw	2
9	289050	Pole Shoe	4
10	168665	Screw	4
11	289051	Field Coil	1
12	373136	Washer	1
13	378432	Armature	1
14	88567	Bolt	2
15	220493	Screw	1
16	339188	Switch	1
17	16848	Screw	2
18	236074	Spring	1
19	354484	Plunger	1
20	354492	Boot	1
21	130676	Lever	1
22	354485	Pin	1
23	378434	Screw	4
24	164514	Nut	1
25	164513	Sealing Ring	2
26	142552	Bushing (16 mm)	1
26	142741	Housing (DE)	1
27	236078	Stud	1
28	172813	Collar	1
29	236081	Retaining Ring	1
30	236082	Collar	1
31	378435	Pin	1
32	1309438	Drive Gear	1
33	55978	Washer	1
34	123675	Bearing	1
35	131173	Gasket	1
36	131172	Bushing	1
37	88035	Seal	1
38	277094	Grommet	1

FOOTNOTES:

a Remanufactured Starter Motor 3012612 R

STARTER (FIGURE 4-22)

GASOLINE AND LPG (S/N F006D02740S ↔ S/N F006D02947S)



HP080172

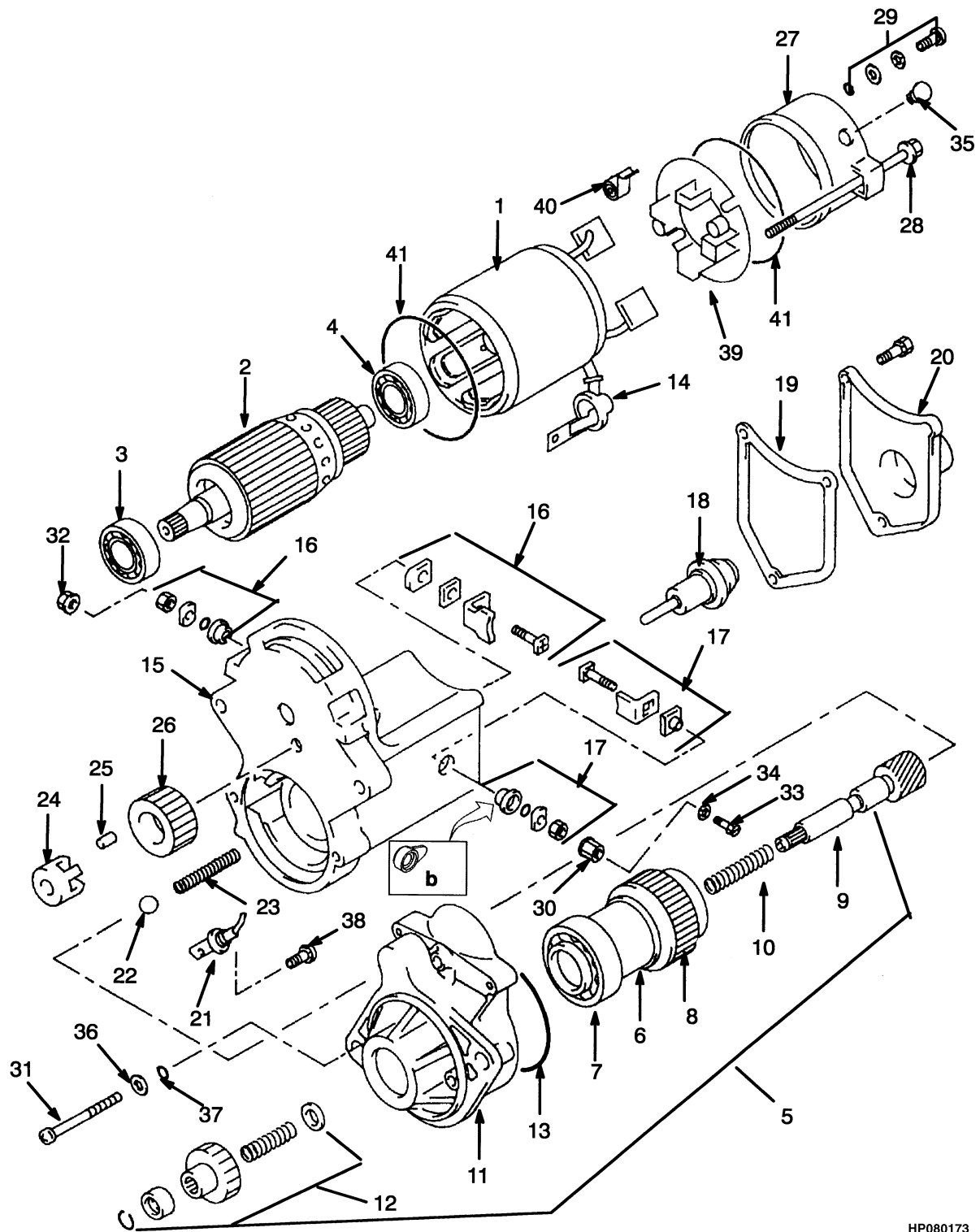
STARTER

GASOLINE AND LPG (S/N F006D02740S ↔ S/N F006D02947S)

ITEM	PART NO.	DESCRIPTION	QTY
	1383779	Starter	1
1	354478	Brush Holder	2
2	236066	Brush	4
3	227097	Screw	2
4	288917	End Head (CE)	1
5	88572	Holder	2
6	236069	Spring	2
7	236070	Support	2
8	164507	Screw	2
9	289050	Pole Shoe	4
10	168665	Screw	4
11	1344707	Field Coil	1
12	373136	Washer	1
13	378432	Armature	1
14	88567	Bolt	2
15	378433	Screw	1
16	339188	Switch	1
17	339187	Switch	1
18	255724	Spring	1
19	1344710	Plunger	1
20	354492	Boot	1
21	130676	Lever	1
22	354485	Pin	1
23	378434	Screw	4
24	164514	Nut	1
25	164513	Sealing Ring	2
26	142552	Bushing	1
26	142741	Housing (DE)	1
27	236078	Stud	1
28	172813	Collar	1
29	236081	Retaining Ring	1
30	236082	Collar	1
31	378435	Pin	1
32	1309438	Drive Gear	1
33	55978	Washer	1
34	123675	Bearing	1
35	131173	Gasket	1
36	131172	Bushing	1
37	88035	Seal	1
38	277094	Grommet	1
39	1344712	Screw	2
40	1389115	Nut	2
41	354487	Nut	1

STARTER (FIGURE 4-23)

GASOLINE AND LPG (S/N F006D02948 → INC. 2936 EXC. 2960, 2976)



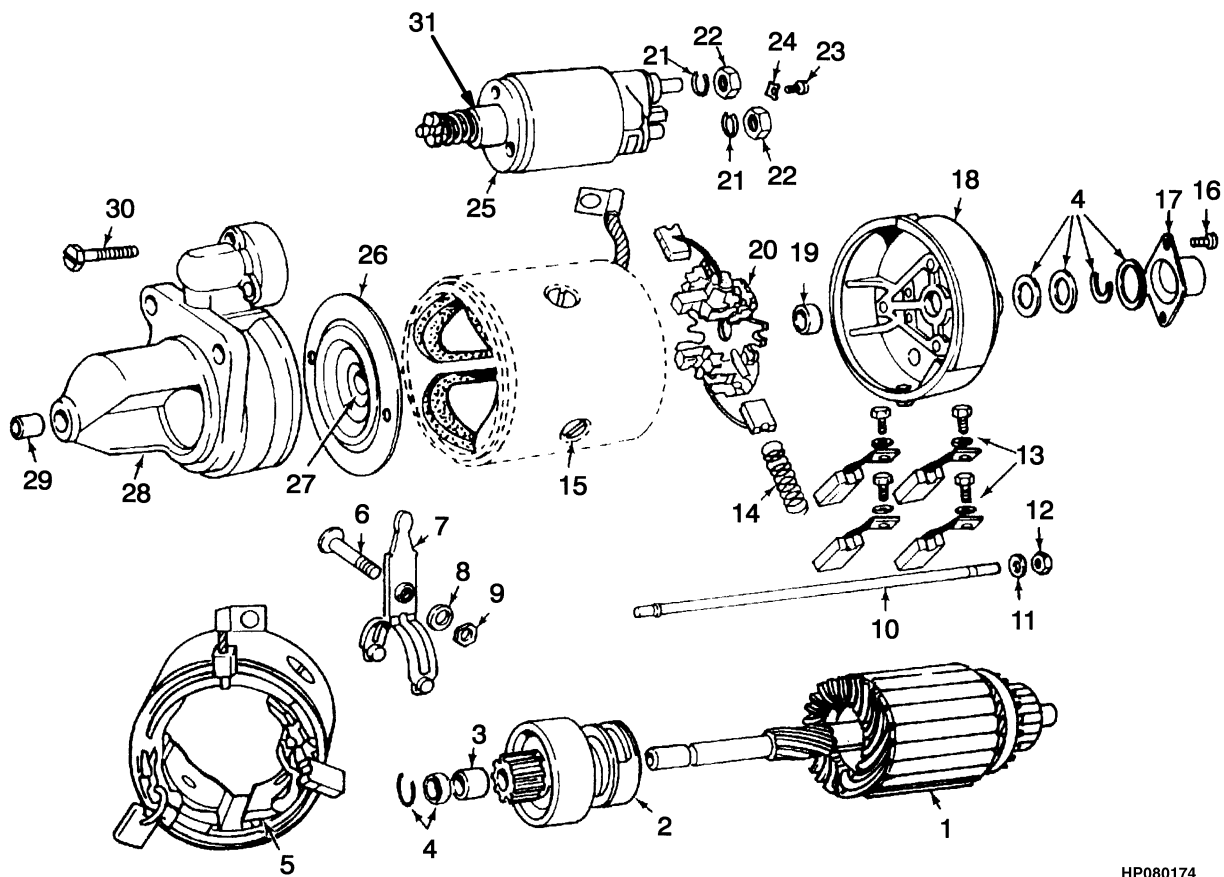
HP080173

STARTER**GASOLINE AND LPG (S/N F006D02948 → INC. 2936 EXC. 2960, 2976)**

ITEM	PART NO.	DESCRIPTION	QTY
	a 1383240	Starter	1
1	1390149	Yoke	1
1		Brushes	2
2	1390152	Armature	1
3	1390168	Ball Bearing	1
3	1453889	Ball Bearing (Optional)	1
4	1390169	Ball Bearing	1
5	1453546	Clutch Assy	1
6		Clutch	1
7		Bearing	1
8		Ball Bearing	1
9		Shaft	1
10		Spring	1
11		Housing	1
12		Pinion Kit	1
13	1459303	Seal	1
14	1390173	Cover	1
15	1465586	Switch	1
16	1465587	Kit-Terminal (M)	1
17	1453551	Kit-Terminal (C)	1
18	1391238	Plunger	1
19	1391239	Gasket	1
20	1391240	Cover	1
21	1391241	Bolt (Terminal)	1
22	1453890	Ball Bearing (Optional)	1
22	324637	Ball	1
23	1390158	Spring	1
24	1390157	Retainer	1
25	324634	Roller	5
26	1390156	Pinion	1
27	1391243	Frame	1
28	1390161	Bolt	2
29	1390162	Screw	2
30	1390165	Nut	1
31	1390160	Screw	2
32	1390172	Nut	1
33	1390166	Bolt	1
34	1391244	Washer	2
35	1390171	Cover	1
36	1390163	Washer	2
37	1390164	O-Ring	2
38	1390167	Screw	1
39	1390155	Brush Holder	1
40	1390159	Spring	1
41	1390170	O-Ring	1

FOOTNOTES:**a** 5/1998 →

STARTER (FIGURE 4-24) DIESEL



HP080174

**STARTER
DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	a 326460	Starter (Bosch)	1
1	1356843	Armature	1
2	329299	Clutch Assy	1
3	329283	Bushing	2
4	1356848	Kit-Armature	1
5	1357350	Field Coil	1
6	1455828	Screw	1
7	1357351	Lever	1
8	329377	Washer	1
9	329378	Nut	1
10	329285	Stud	2
11	296417	Washer	2
12	136687	Nut	2
13	329295	Brush	1
14	329384	Spring	4
15	335888	Screw	4
16	1356845	Screw	2
17	329291	Cap	1
18	329289	Cover (CE)	1
19	329290	Bushing	1
20	329296	Brush Holder	1
21	335889	Lockwasher	2
22	296128	Nut	2
23	1356847	Screw	1
24	329293	Lockplate	1
25	335892	Switch	1
26	329298	Support	1
27	335886	Seal	1
27	335884	Bushing	1
27	335890	Seal	1
28	329386	Starter Drive Housing (DE)	1
29	152542	Bushing	1
30	1356844	Screw	3
31	1356849	Cap	1

FOOTNOTES:**a** Remanufactured Starter 3001265 R

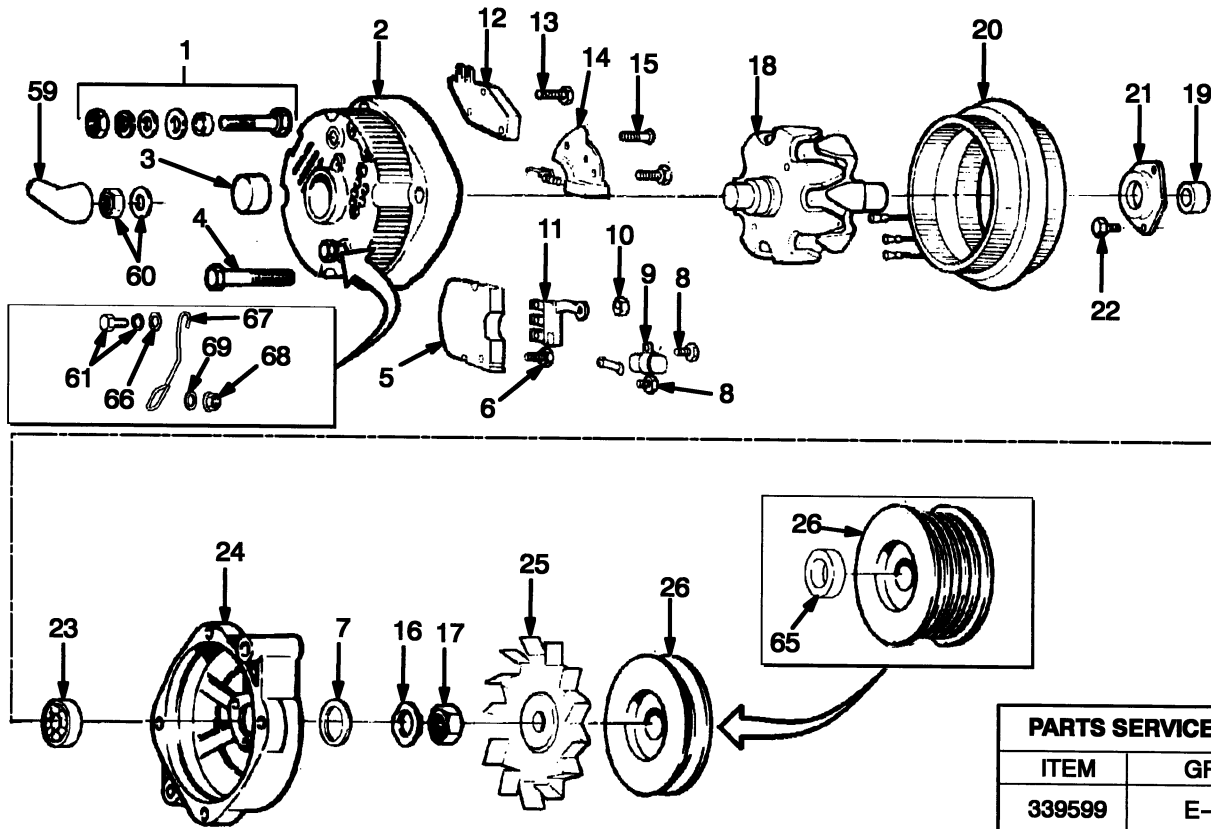
This exploded view diagram illustrates the assembly of a mechanical device, likely a pump or motor component. The parts are numbered 1 through 41. The main housing (1) is shown with various ports and mounting points. A central shaft assembly (2, 3, 4, 5) is shown being inserted into the housing. A large gear or impeller (13) is shown being mounted onto the shaft. A cover plate (14) is shown being secured to the housing with screws (15). A control lever or handle (17) is shown being attached to the side of the housing. A mounting bracket (18) is shown being attached to the bottom of the housing. A base plate (6) is shown at the bottom, with various mounting points and screws (7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41) for securing the assembly. The diagram uses dashed lines to indicate the assembly path and alignment of the components.

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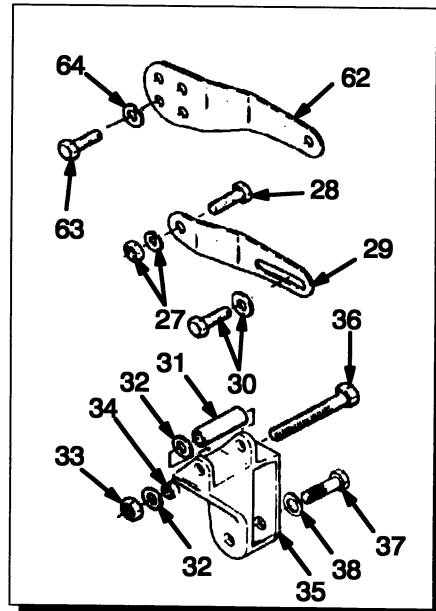
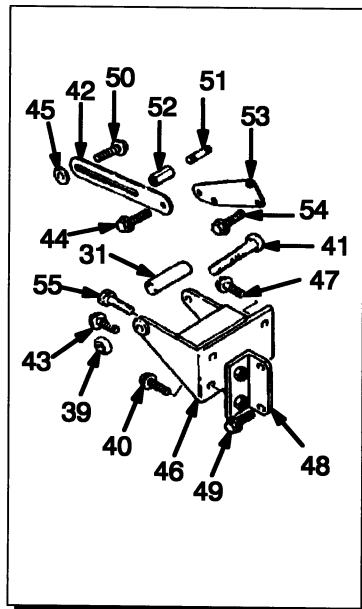
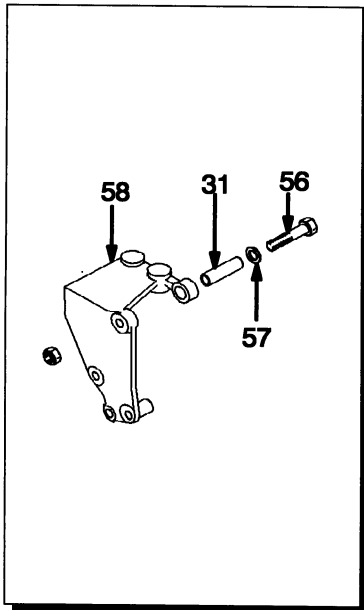
STARTER
DIESEL – OPTIONAL

ITEM	PART NO.	DESCRIPTION	QTY
	1453060	Starter (Denso)	1
1	1462233	Yoke	1
2	1462234	Cover	1
3	1462236	Armature	1
4	1462238	Ball Bearing	1
5	1462240	Bearing	1
6	1462241	Clutch Assy	1
7		Pinion Kit	1
8		Clutch Subassembly	1
9		Ball Bearing (Front)	1
10		Ball Bearing (Rear)	1
11		Spring	1
12		Shaft	1
13		Housing	1
14	1463075	Switch	1
15	1463076	Kit-Terminal	1
16	1462251	Kit-Terminal	1
17	1463077	Plunger	1
18	1462253	Gasket	1
19	1462254	Cover	1
20	1462255	Bolt (Terminal)	1
21	1462256	Bushing	1
22	1462257	Brush Holder	1
23	1462258	Spring	4
24	1463078	Cover	1
25	1462260	Ball	1
26	1462261	Spring	1
27	1462262	Pinion	1
28	1462263	Roller	5
29	1462264	Retainer	1
30	1462265	Retainer	1
31	1462266	Bolt	2
32	1462267	Screw	2
33	1462270	Nut	1
34	1367106	Bolt	3
35	1462271	Lockwasher	1
36	1390167	Screw	1
37	1462273	Nut	1
38	1390163	Washer	3
39	1367107	Cover	1
40	1390164	O-Ring	3
41	1462272	Seal	1

ALTERNATOR (FIGURE 4-26) IDENTIFY BY "DELCO" (→ S/N F006D03768)



PARTS SERVICE GRAM	
ITEM	GRAM
339599	E-E-70



HP080176

ALTERNATOR **IDENTIFY BY "DELCO" (→ S/N F006D03768)**

KEY:**A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a 339599	Alternator	1	1
1	310081	Kit-Terminal	1	1
2	343038	Frame (CE)	1	1
3	128838	Bearing	1	1
4	128852	Bolt	4	4
5	343031	Rectifier	1	1
6	343032	Screw	1	1
7	322177	Collar	1	1
8	198410	Screw	2	2
9	198401	Capacitor	1	1
10	15039	Nut	3	3
11	343040	Diode	1	1
12	290303	Regulator	1	1
13	343042	Screw	1	1
14	334970	Brush Spring	2	2
14	343041	Brush Holder	1	1
15	268356	Screw	2	2
16	128835	Lockwasher	1	1
17	55580	Nut	1	1
18	343046	Rotor	1	1
19	343029	Collar	1	1
20	343039	Stator	1	1
21	202003	Plate	1	1
22	344234	Screw	3	3
23	290509	Bearing	1	1
24	343033	End Head (DE)	1	1
25	126358	Fan	1	1
26	1310277	Pulley	..	1
26	e 1377751	Pulley	1	..
26	c 208483	Pulley	1	..
27	c 136692	Nut	1	..
27	c 388049			
	292682	Lockwasher	1	..
28	c 136985	Capscrew	1	..
29	c 344358	Strap	1	..
30	176640	Bolt	1	..
30	320157	Washer	1	..
31	b 1306216	Sleeve	..	1
31	d 1345014	Sleeve	..	1
31	305100	Sleeve	1	..
32	261379	Washer	2	..
33	139743	Locknut	1	..
34	189338	Spacer	1	..
35	e 1377765	Mount	1	..
35	c 344351	Bracket	1	..

ALTERNATOR

IDENTIFY BY "DELCO" (→ S/N F006D03768)

KEY:

A: Gasoline and LPG

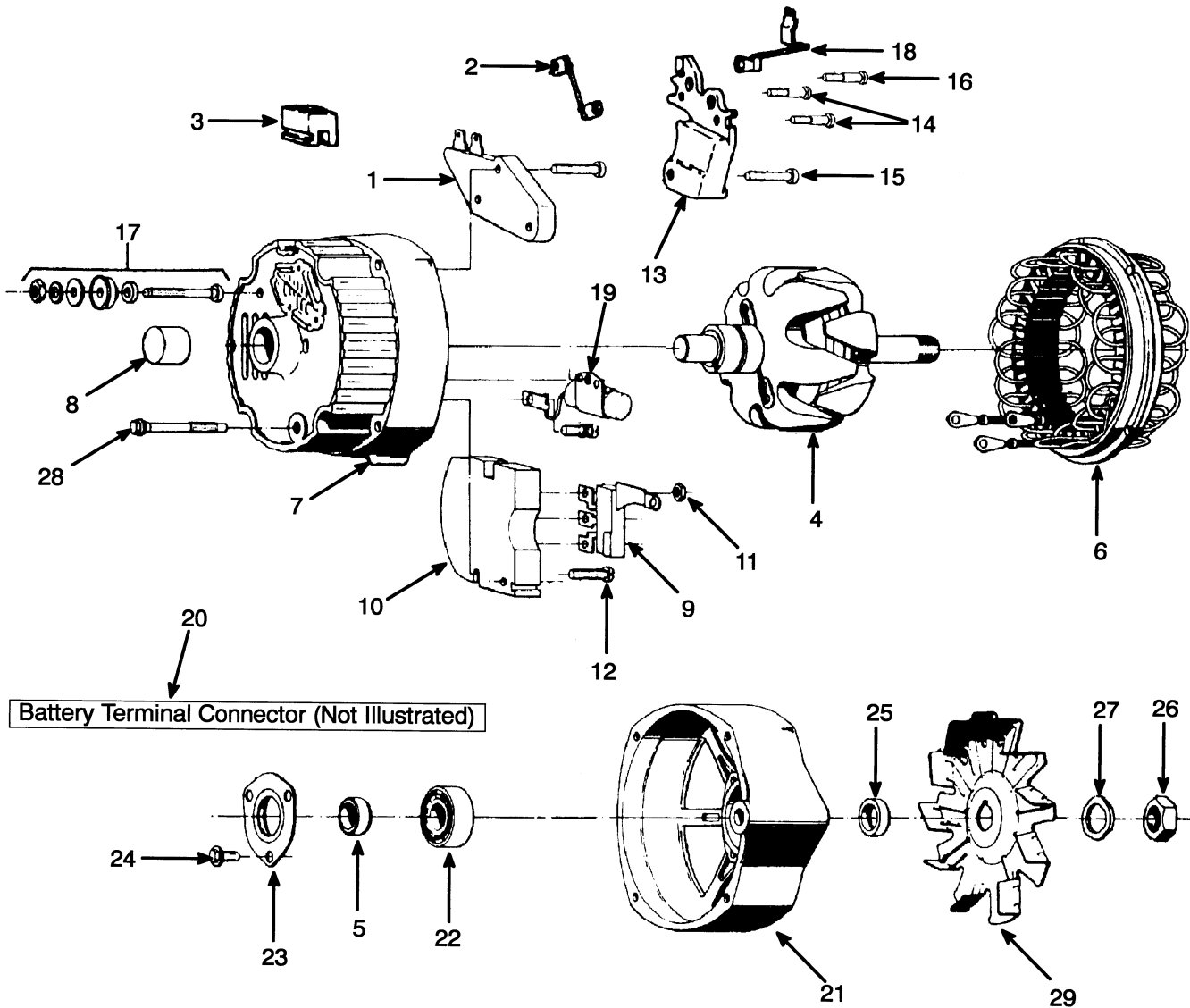
B: Diesel

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
36	18548	Capscrew	1	..
37	18549	Capscrew	1	..
38	388049			
	292682	Lockwasher	2	..
39	1307907	Nut	..	1
40	1307898	Screw	..	2
41	1307906	Screw	..	1
42	1306214	Lever	..	1
43	1307914	Screw	..	2
44	1307910	Capscrew	..	1
45	296418	Washer	..	1
46	b 1306212	Bracket	..	1
47	1307908	Screw	..	1
48	1306213	Bracket	..	1
49	1307909	Screw	..	2
50	1306358	Screw	..	1
51	1307911	Stud	..	1
52	1307912	Nut	..	1
53	1306215	Plate	..	1
54	1307913	Screw	..	1
55	1318968	Screw	..	2
56	d 292523	Capscrew	..	1
57	d 1318306	Washer	..	1
58	d 1345008	Bracket	..	1
59	157065	Boot	1	1
60	136687	Nut	1	1
60	296359	Washer	1	1
61	136681	Capscrew	..	1
61	c 136681	Capscrew	1	..
61	e 176640	Bolt	1	..
61	292681	Lockwasher	1	1
62	e 1377747	Strap	1	..
62	f 1389337	Strap (Alternator)	1	..
63	e 287860	Capscrew	4	..
64	e 388049			
	292682	Lockwasher	4	..
65	e 1377738	Spacer	1	..
66	e 320158	Washer	1	..
67	e 1377777	Brace	1	..
68	e 192077	Nut	1	..
69	e 15176	Washer	1	..

FOOTNOTES:

- a** Remanufactured Alternator 3012611 R
- b** → S/N F006A06326
- c** → S/N F006D02202
- d** S/N F006A06327 →
- e** S/N F006D02203 →
- f** S/N F006D03099 →

ALTERNATOR (FIGURE 4-27) (S/N F006D03769 ↔ S/N F006D06520)

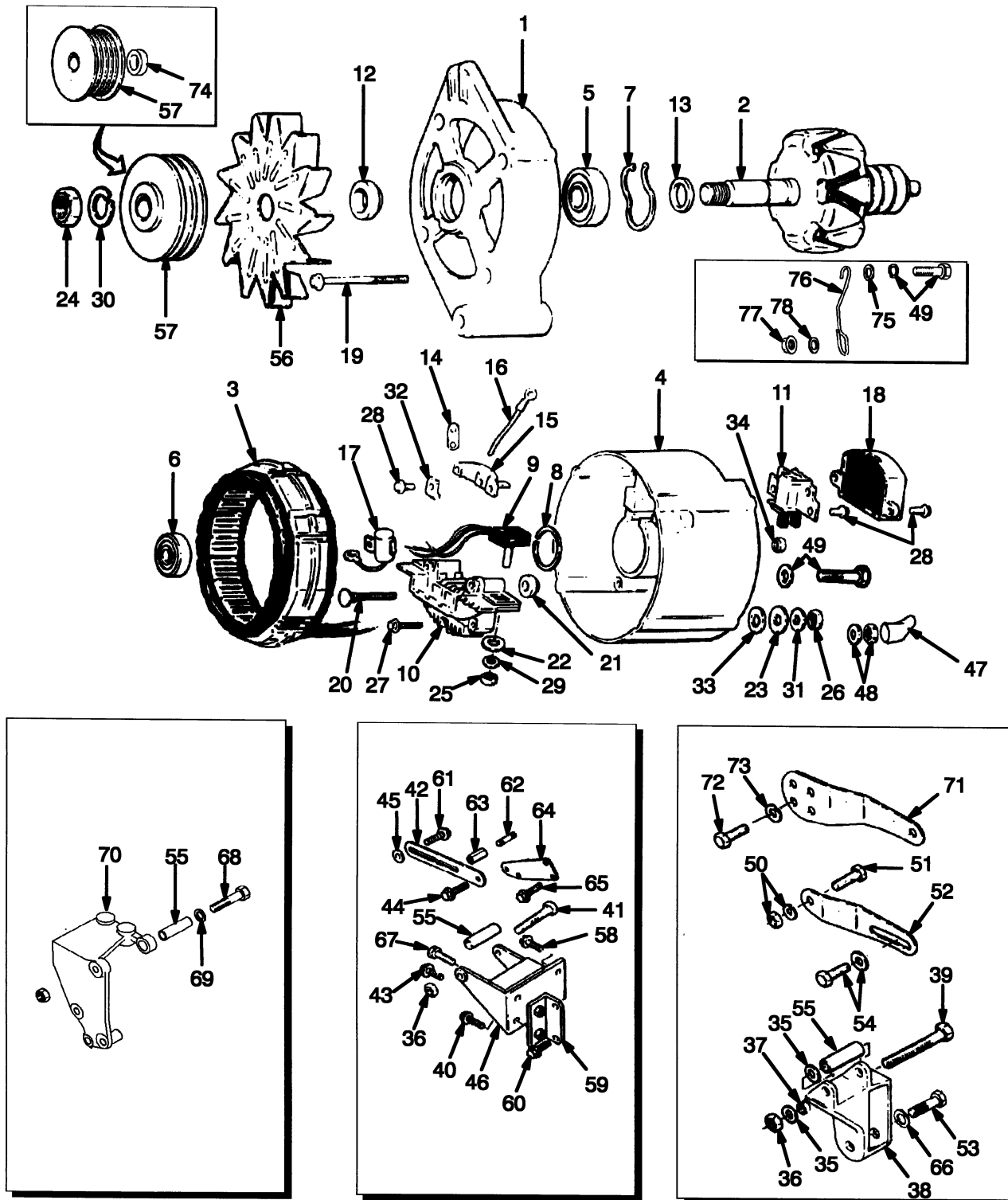


HP080177

ALTERNATOR
(S/N F006D03769 ↔ S/N F006D06520)

ITEM	PART NO.	DESCRIPTION	QTY
	1358911	Alternator	1
1	290303	Regulator	1
2	1377067	Resistor	1
3	274648	Boot	1
4	1377047	Rotor	1
5	343029	Collar (DE)	1
6	1377048	Stator	1
7	310085	Frame (CE)	1
8	290508	Bearing (CE)	1
9	223095	Diode	1
10	343031	Rectifier	1
11	1344274	Nut	3
12	343032	Screw	1
13	1377050	Brush Spring	2
13	290300	Brush Holder	1
14	268356	Screw (Brush)	2
15	290369	Screw (Brush Holder)	1
16	290370	Screw (Brush Holder)	1
17	310081	Kit-Terminal	1
18	344233	Terminal	1
19	1377052	Capacitor	1
20	198410	Screw	1
21	1377049	End Head	1
22	290509	Bearing	1
23	1377053	Plate	1
24	344234	Screw (Retaining Plate)	3
25	310088	Collar (DE)	1
26	55580	Nut	1
27	128835	Lockwasher	1
28	128852	Bolt	4
29	1377051	Fan	1

ALTERNATOR (FIGURE 4-28) IDENTIFY BY "PRESTOLITE"



HP080178

ALTERNATOR
IDENTIFY BY "PRESTOLITE"**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a 385656	Alternator	1	1
1		Housing (Front)	1	1
2	386069	Rotor	1	1
3	386070	Stator	1	1
4		Housing	1	1
5	248128	Bearing	1	1
6	386071	Bearing	1	1
7	248129	Retainer	1	1
8	226577	Retainer (Rear)	1	1
9	386072	Diode	1	1
10	386073	Diode	1	1
11	386074	Brush	1	1
12	386400	Spacer	1	1
13	386401	Spacer	1	1
14	386402	Terminal	1	1
15	386403	Terminal	1	1
16	386404	Cable	1	1
17	386405	Capacitor	1	1
18	386406	Regulator	1	1
19	387493	Bolt	4	4
20	387494	Bolt	1	1
21	386407	Insulator	1	1
22	197067	Washer	1	1
23	387489	Washer	1	1
24	248147	Nut	1	1
25	15052	Nut	1	1
26	387492	Nut	1	1
27	387487	Screw	2	2
28	387488	Screw	10	10
29	15152	Lockwasher	1	1
30	246943	Lockwasher	1	1
31	387490	Washer	1	1
32	387491	Clamp	2	2
33	382642	Washer	2	2
34	133481	Heat Shrink	1	1
35	261379	Washer	2	..
36	1307907	Nut	..	1
36	139743	Locknut	1	..
37	189338	Spacer	1	..
38	d 1377765	Mount	1	..
38	e 1383229	Mount	1	..
38	c 344351	Bracket	1	..
39	18548	Capscrew	1	..
40	1307898	Screw	..	2
41	1307906	Screw	..	1

ALTERNATOR **IDENTIFY BY "PRESTOLITE"**

KEY:**A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
42	1306214	Lever	..	1
43	1307914	Screw	..	2
44	1307910	Capscrew	..	1
45	296418	Washer	..	1
46	b 1306212	Bracket	..	1
47	157065	Boot	1	1
48	136687	Nut	1	1
48	296359	Washer	1	1
49	c 136681	Capscrew	1	1
49	g 176640	Bolt	1	..
49	292681	Lockwasher	1	1
50	c 136692	Nut	1	..
50	c 388049			
	292682	Lockwasher	1	..
51	c 136985	Capscrew	1	..
52	c 344358	Strap	1	..
53	18549	Capscrew	1	..
54	176640	Bolt	1	..
54	320157	Washer (Cone)	1	..
55	b 1306216	Sleeve	..	1
55	f 1345014	Sleeve	..	1
55	305100	Sleeve	1	..
56	126358	Fan	1	1
57	1310277	Pulley	..	1
57	g 1377751	Pulley	1	..
57	c 208483	Pulley	1	..
58	1307908	Screw	..	1
59	1306213	Bracket	..	1
60	1307909	Screw	..	2
61	1306358	Screw	..	1
62	1307911	Stud	..	1
63	1307912	Nut	..	1
64	1306215	Plate	..	1
65	1307913	Screw	..	1
66	388049			
	292682	Lockwasher	2	..
67	1318968	Screw	..	2
68	f 292523	Capscrew	..	1
69	f 1318306	Washer	..	1
70	f 1345008	Bracket	..	1
71	d 1377747	Strap	1	..
71	e 1389337	Strap (Alternator)	1	..
72	d 287860	Capscrew	4	..
73	d 388049			
	292682	Lockwasher	4	..

ALTERNATOR
IDENTIFY BY "PRESTOLITE"**KEY:****A: Gasoline and LPG****B: Diesel**

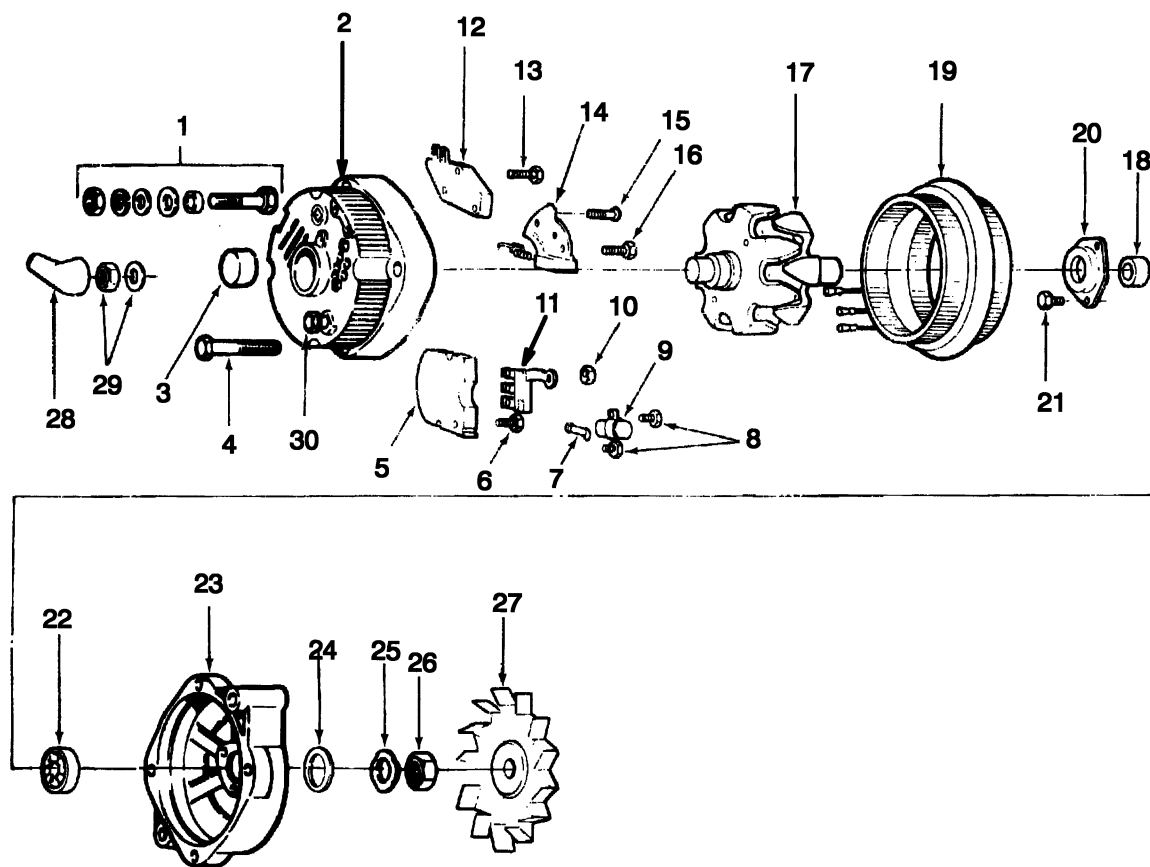
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
74	d 1377738	Spacer	1	..
75	d 320158	Washer	1	..
76	d 1377777	Brace	1	..
77	d 192077	Nut	1	..
78	d 15176	Washer	1	..

FOOTNOTES:

a Remanufactured Alternator 3020077 R
b → S/N F006A06326
c → S/N F006D02202
d S/N F006D02203 ↔ S/N F006D03098

e S/N F006D03099 →
f S/N F006A06327 →
g S/N F006D02023 →

ALTERNATOR (FIGURE 4-29) OPTIONAL



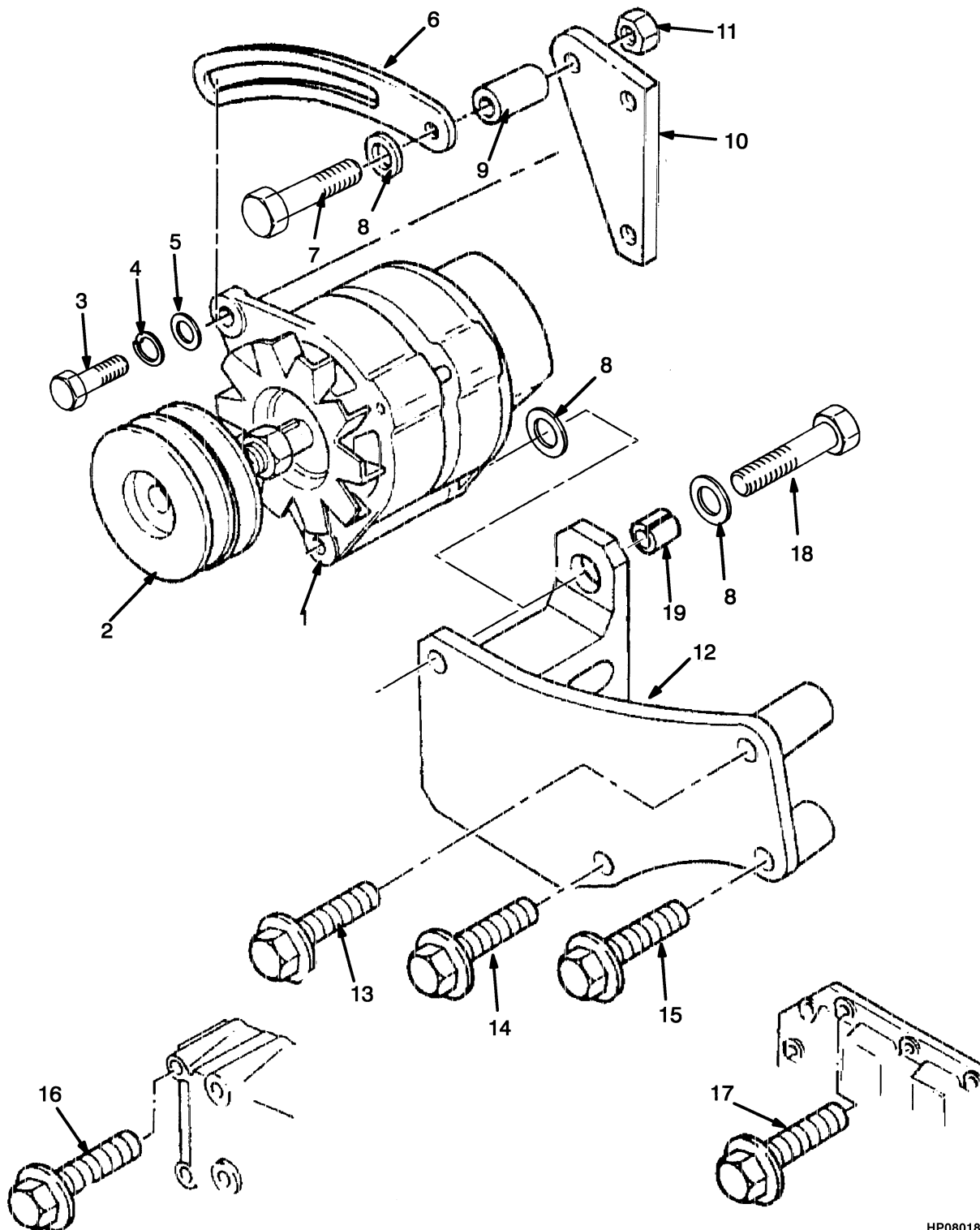
HP080179

**ALTERNATOR
OPTIONAL**

ITEM	PART NO.	DESCRIPTION	QTY
	a 344235	Alternator	1
1	310081	Kit-Terminal	1
2	310085	Frame (CE)	1
3	290508	Bearing	1
4	128852	Bolt	4
5	343031	Rectifier	1
6	343032	Screw	1
7	344233	Terminal	1
8	198410	Screw	2
9	198401	Capacitor	2
9	198402	Bracket	1
10	15039	Nut	3
11	223095	Diode	1
12	290303	Regulator	1
13	290369	Screw	1
14		Brush	2
14	290300	Brush Holder	1
15	268356	Screw	2
16	290370	Screw	1
17	343046	Rotor	1
18	343029	Collar	1
19	343034	Stator	1
20	202003	Plate	1
21	344234	Screw	3
22	290509	Bearing	1
23	343033	End Head (DE)	1
24	310088	Collar	1
25	128835	Lockwasher	1
26	55580	Nut	1
27	126358	Fan	1
28	157065	Boot	1
29	136687	Nut	1
29	296359	Washer	1
30	136681	Capscrew	1
30	292681	Lockwasher	1

FOOTNOTES:**a** Remanufactured Alternator 3000974 R

ALTERNATOR MOUNTING (FIGURE 4-30) DIESEL 1004.42 — WITH LOW EMISSIONS



HP080180

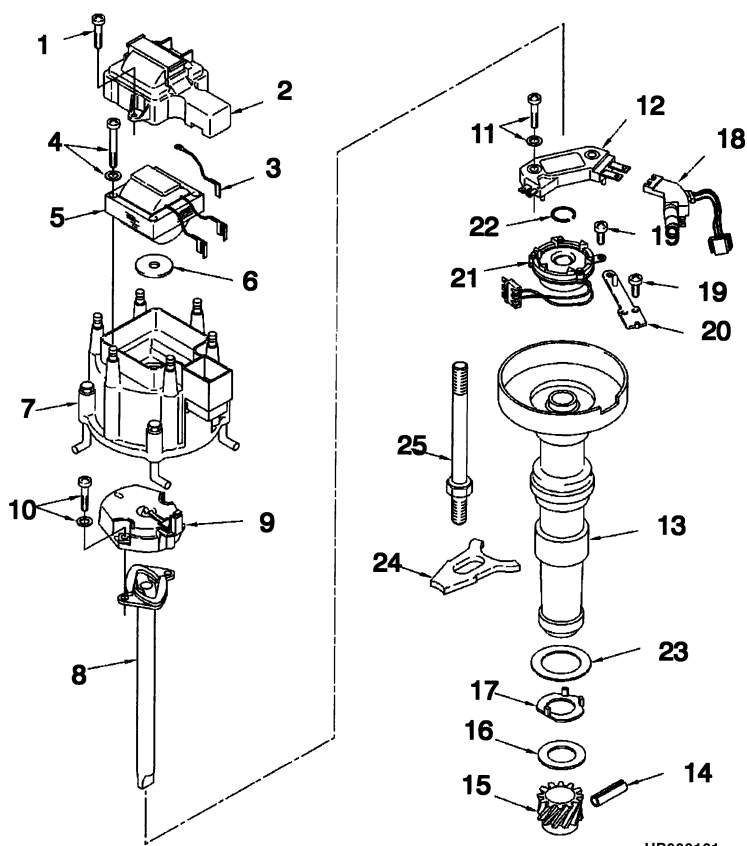
ALTERNATOR MOUNTING
DIESEL 1004.42 – WITH LOW EMISSIONS

ITEM	PART NO.	DESCRIPTION	QTY
1	b 1469598	Alternator	1
1	b 1469601	Wire (Alternator To Engine Harness)	1
1	a 1358911	Alternator (☞ Figure 4-27).....	1
2	1310277	Pulley	1
3	176640	Bolt	1
4	292681	Lockwasher	1
5	320157	Washer	1
6	1451743	Lever	1
7	1382963	Screw	1
8	1318306	Washer	3
9	1451744	Spacer	1
10	1451746	Bracket	1
11	1451745	Nut	1
12	1456744	Bracket	1
13	1307914	Screw	2
14	1451758	Screw	1
15	1315497	Screw	1
16	1306357	Screw	1
17	1306362	Screw	1
18	292523	Capscrew	1
19	1345014	Sleeve	1

FOOTNOTES:**a** → S/N F006V01611Y**b** S/N F006V01612Y →

DISTRIBUTOR (FIGURE 4-31) (→ S/N F006A07082)

PARTS SERVICE GRAM	
ITEM	GRAM
23	A-A-92

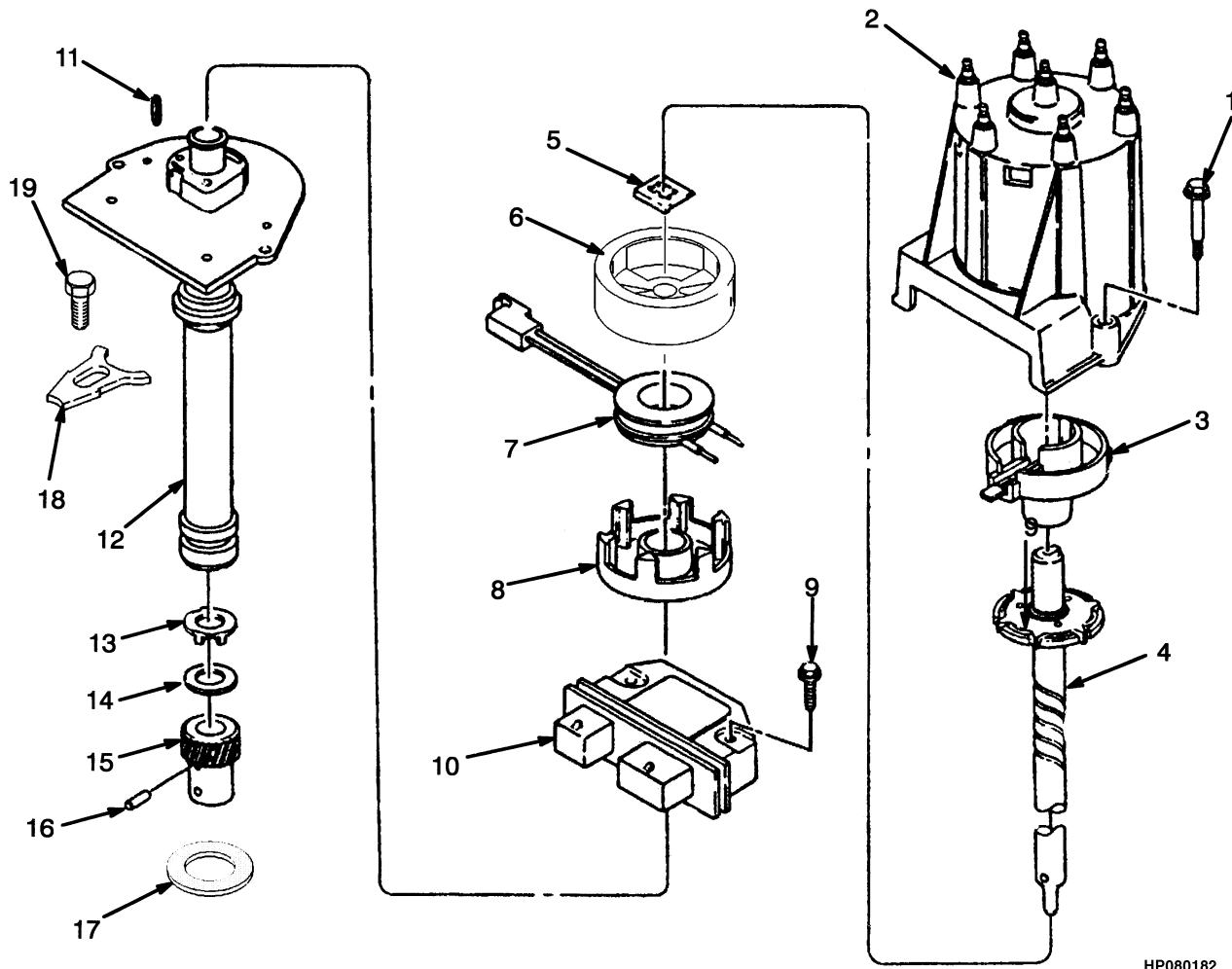


DISTRIBUTOR
(→ S/N F006A07082)

ITEM	PART NO.	DESCRIPTION	QTY
	375622	Distributor	1
1	274364	Screw	2
2	288031	Cover	1
3	288032	Static Strap	1
4	274367	Screw	4
5	274366	Ignition Coil	1
6	274368	Seal	1
7	274370	Brush	1
7	288033	Distributor Cap	1
8	375778	Shaft	1
9	281846	Rotor	1
10	271494	Kit-Screw	2
11	271497	Screw	2
12	271496	Module	1
13		Base	1
14	19870	Pin	1
15	274401	Gear	1
16	274402	Washer	1
17	274403	Washer	1
18	274373	Wire Harness	1
19	220470	Screw	2
20	271495	Bracket	1
21	271667	Pole Shoe	1
22	271668	Retaining Ring	1
23	1334423	Gasket	1
23	263740	Gasket	1
24	301966	Clamp	1
25	375597	Bolt	1
	1312809	Kit-Gasket	1
	373100	Engine Assy-Gas	1
	383134	Engine Assy-Gas	1
	1302960	Engine Assy-Gas	1
	1312468	Engine Assy-Gas	1
	996106	Kit-Tune-Up	1
	996015	Kit-Tune-Up	1

DISTRIBUTOR (FIGURE 4-32)

2KM 1992, 3KM 1993, AND 5LM 1995 SERIES ENGINES



DISTRIBUTOR

2KM 1992, 3KM 1993, AND 5LM 1995 SERIES ENGINES

KEY:**A: 2KM 1992 Series Engine****B: 3KM 1993 and 5LM 1995 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1342627	Distributor	1	..
	1371235	Distributor	..	1
1	1334401	Screw	1	1
2	1342528	Distributor Cap	1	1
3	1342529	Rotor	1	1
4	1342530	Shaft	1	1
5	1342535	Retainer	1	1
6	1342534	Shield	1	1
7	1342533	Ignition Coil	1	1
8	1342536	Pole Shoe	1	1
9	1334408	Bolt	2	2
10	1342531	Module	1	1
11	1334410	Pin	1	1
12	1342532	Housing	1	1
13	274403	Washer	1	1
14	1342525	Washer	1	1
15	1342526	Gear	1	1
16	19870	Pin	1	1
17	1334423	Gasket	1	1
18	301966	Clamp	1	1
19	375597	Bolt	1	1
	996211	Kit-Tune-Up	1	1
	996340	Kit-Tune-Up	1	1
	996337	Kit-Tune-Up	1	1

LM4 1994, LX6 1996, LX7 1997, LX8 1998, LX9 1999, AND 2000 SERIES ENGINES

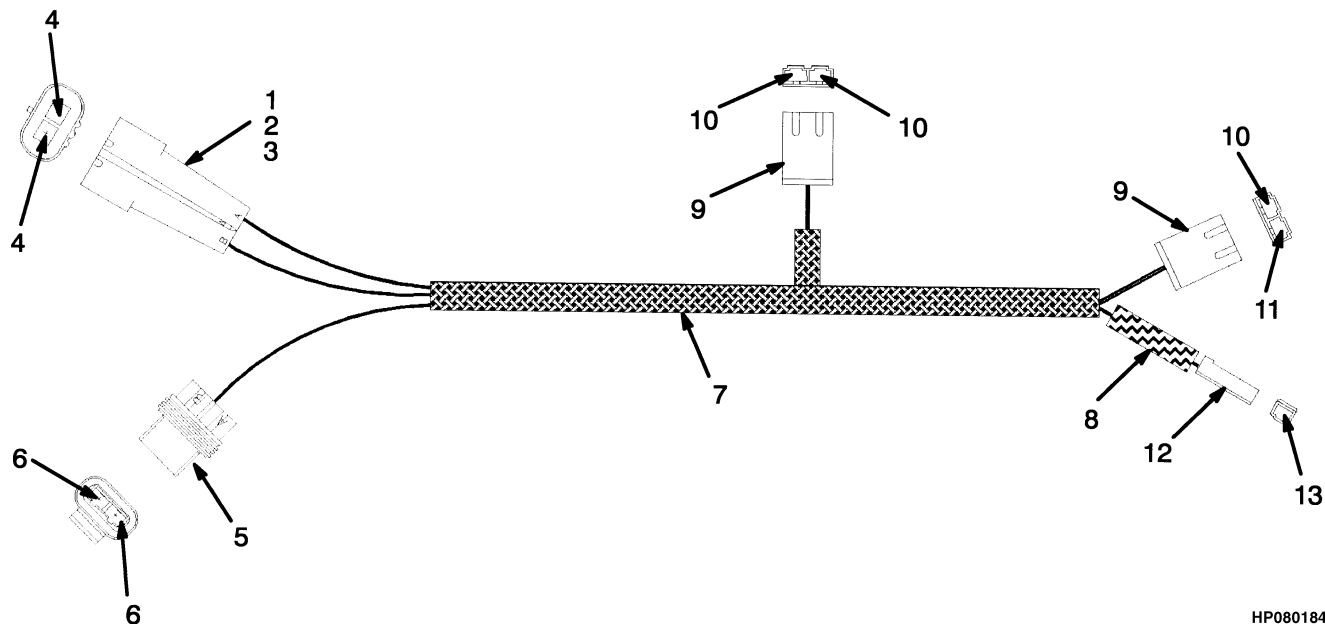


DISTRIBUTOR**LM4 1994, LX6 1996, LX7 1997, LX8 1998, LX9 1999, AND 2000 SERIES ENGINES****KEY:****A: LM4 1994 Series Engine****B: LX6 1996, LX7 1997, LX8 1998, LX9 1999, 2000 Series Engine**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1450869	Distributor	..	1
	1374322	Distributor	1	..
1	1334401	Screw	2	2
2	1342528	Distributor Cap	1	1
3	1374329	Rotor	1	1
4	1374328	Shaft	1	1
5	1334406	Retainer	1	1
6	1342534	Shield	1	1
7	1374331	Ignition Coil	1	1
8	1374330	Pole Shoe (Stationary)	1	1
9	1334408	Bolt	2	2
10	1374332	Module	1	..
10	1460387	Module	..	1
11	1334410	Pin	1	1
12	1374333	Housing	1	1
13	274403	Washer	1	1
14	1342525	Washer	1	1
15	1342526	Gear	1	..
15	1451316	Gear	..	1
16	19870	Pin	1	1
17	1334423	Gasket	1	1
18	301966	Clamp	1	1
19	375597	Bolt	1	1

WIRE HARNESS (FIGURE 4-34)

NEUTRAL START MONOTROL PEDAL (S/N F006A07083 →) (S/N F006D01501 →)



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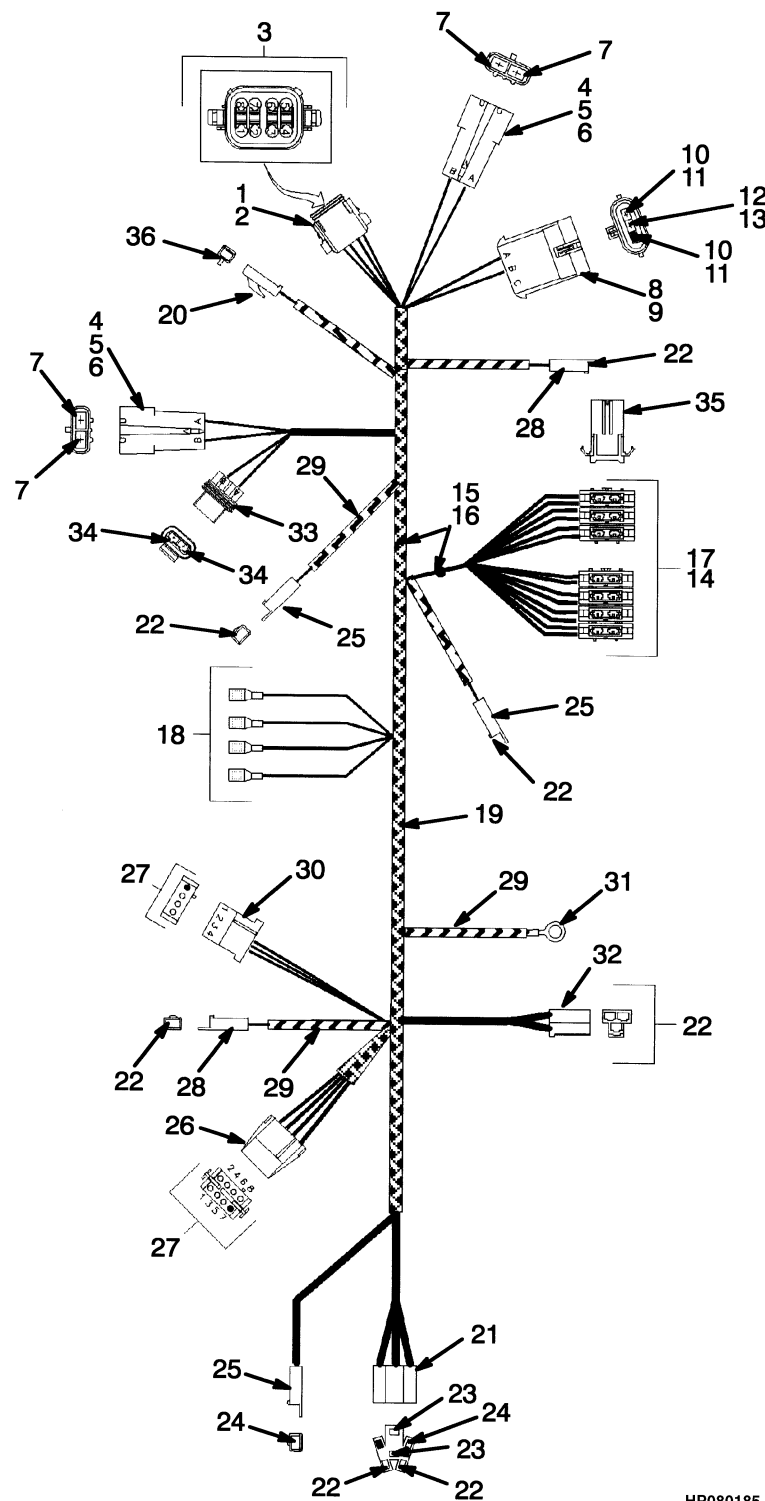
ITEM	PART NO.	DESCRIPTION	QTY
	1345997	Wire Harness (Neutral Start)	1
1	1336870	Connector (Frame Harness)	1
2	1336874	Seal	1
3	1336871	Lock	1
4	1337392	Terminal	2
5	1330292	Connector (Frame Harness)	1
6	1330283	Terminal	2
7	381919	Braiding	AR
8	16906	Conduit	AR
9	346330	Connector Body	2
10	370730	Terminal	3
11	1322673	Terminal	1
12	181046	Connector Body	1
13	134812	Terminal	1

NOTES

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WIRE HARNESS (FIGURE 4-35)

MAIN — GASOLINE AND LPG (S/N F006D01501 →) (S/N F006A07083 →)

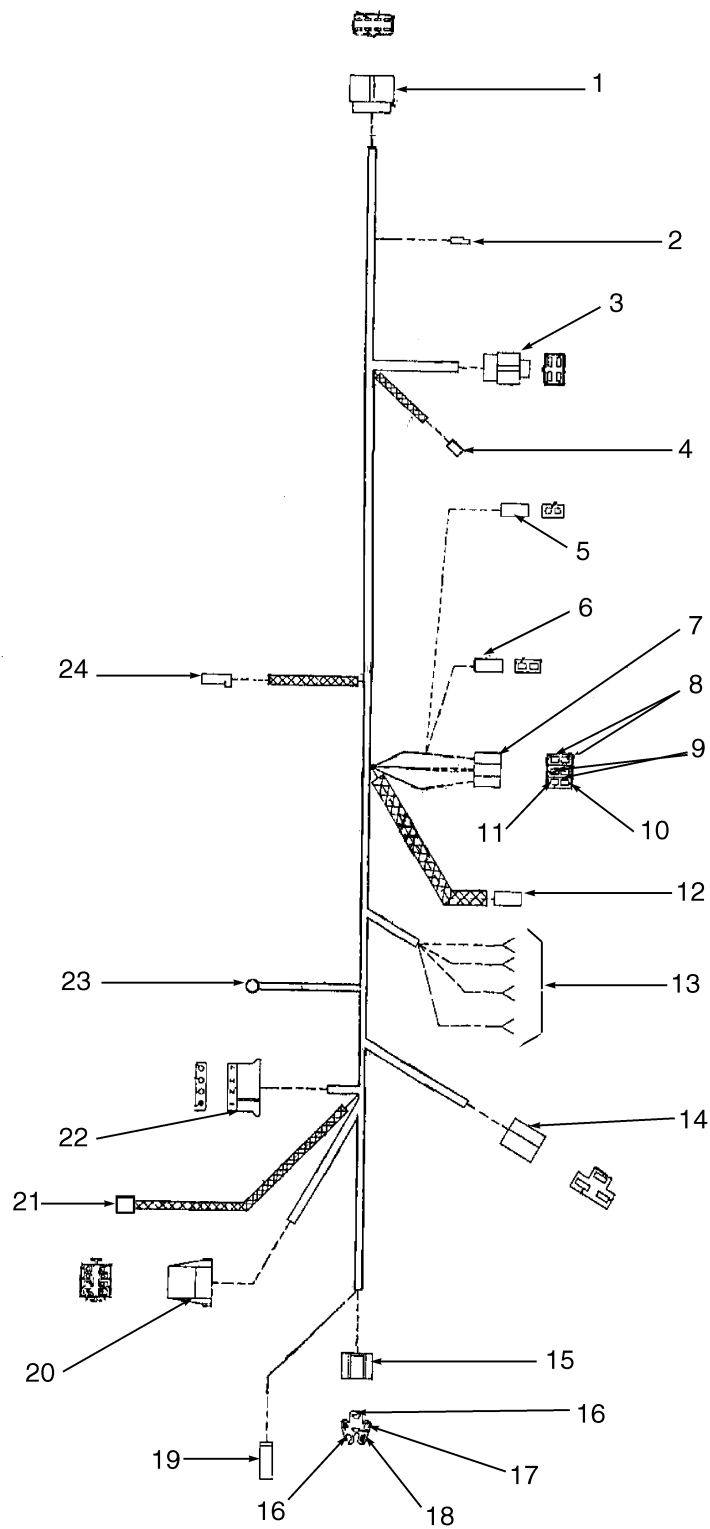


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WIRE HARNESS**MAIN – GASOLINE AND LPG (S/N F006D01501 →) (S/N F006A07083 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	1346717	Wire Harness (Main)	1
1	1330423	Connector (8 Socket) (Engine Harness)	1
2	1330429	Connector	1
3	1330434	Terminal (Optional)	8
3	1330438	Terminal (Socket)	8
4	1336870	Connector (Engine Harness)	2
5	1336874	Seal	2
6	1336871	Lock	2
7	1337392	Terminal	4
8	1337383	Connector (Engine Harness)	1
9	1337384	Terminal	1
10	1336872	Terminal	2
11	1337386	Seal	2
12	1337385	Terminal	1
13	1337388	Seal	1
14	381846	Fuse Holder	7
15	201954	Splice	2
16	175944	Heat Shrink	AR
17	381847	Terminal	12
18	325789	Terminal	4
19	381919	Braiding	AR
20	181045	Connector Body	1
20	313381	Terminal (Optional)	1
21	370728	Connector Body (Ignition Switch)	1
22	134812	Terminal	8
23	141462	Terminal	2
24	134811	Terminal	2
25	181046	Connector Body	2
26	370727	Connector Body	1
27	367968	Socket	10
28	129889	Connector Body	1
29	30492	Conduit	AR
30	367960	Socket	1
31	129888	E-Ring	1
32	126319	Connector Body	1
33	1330292	Connector (Neutral Start Harness)	1
34	1330283	Terminal	2
35	277446	Connector Body	1
36	134810	Terminal	1

WIRE HARNESS (FIGURE 4-36) MAIN — DIESEL (10/1991 →)



BP080133

WIRE HARNESS
MAIN – DIESEL (10/1991 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1346716	Wire Harness (Main)	1
1		Connector Assembly (Engine Harness)	1
1	181053	Connector Body	1
1	134810	Terminal	8
2		Connector Assembly (Monotrol Harness)	1
2	181045	Connector Body	1
3		Connector Assembly (Neutral Start)	1
3	181049	Connector Body	1
3	134810	Terminal	4
4		Connector Assembly (Fuel Level Sender)	1
4	129889	Connector Body	1
4	134812	Terminal	1
5		Connector Assembly (Light Kit, Europe)	1
5	381846	Fuse Holder	1
5	381847	Terminal	2
6		Connector Assembly (Light Kit, US and Europe)	1
6	381846	Fuse Holder	1
6	381847	Terminal	2
7		Connector Assembly	1
7	381846	Fuse Holder	3
8	381847	Terminal (Horn)	2
9	381847	Terminal (RH Instruments)	2
10	1300231	Terminal (Transmission Solenoid)	1
11	381847	Terminal (LH Instruments)	1
12		Connector Assembly (Cab)	1
12	181053	Connector Body	1
12	134812	Terminal	1
13	134812	Terminal (Park Brake Switch)	1
14		Connector Assembly (Horn Relay)	1
14	126319	Connector Body	1
14	134812	Terminal	3
15		Connector Assembly (Ignition Switch)	1
15	370728	Connector Body	1
16	134812	Terminal	2
17	134811	Terminal	1
18	141462	Terminal	1
19		Connector Assembly (Ground)	1
19	181046	Connector Body	1
19	134811	Terminal	1
20		Connector Assembly (RH Cluster)	1
20	370728	Connector Body	1
20	367968	Socket	6
21		Connector Assembly (Horn Button)	1
21	129889	Connector Body	1
21	134812	Terminal	1
22		Connector Assembly (LH Cluster)	1
22	367960	Socket	1
22	367968	Socket	3
23	129888	E-Ring (Cowl Ground)	1
24		Connector Assembly (Horn)	1

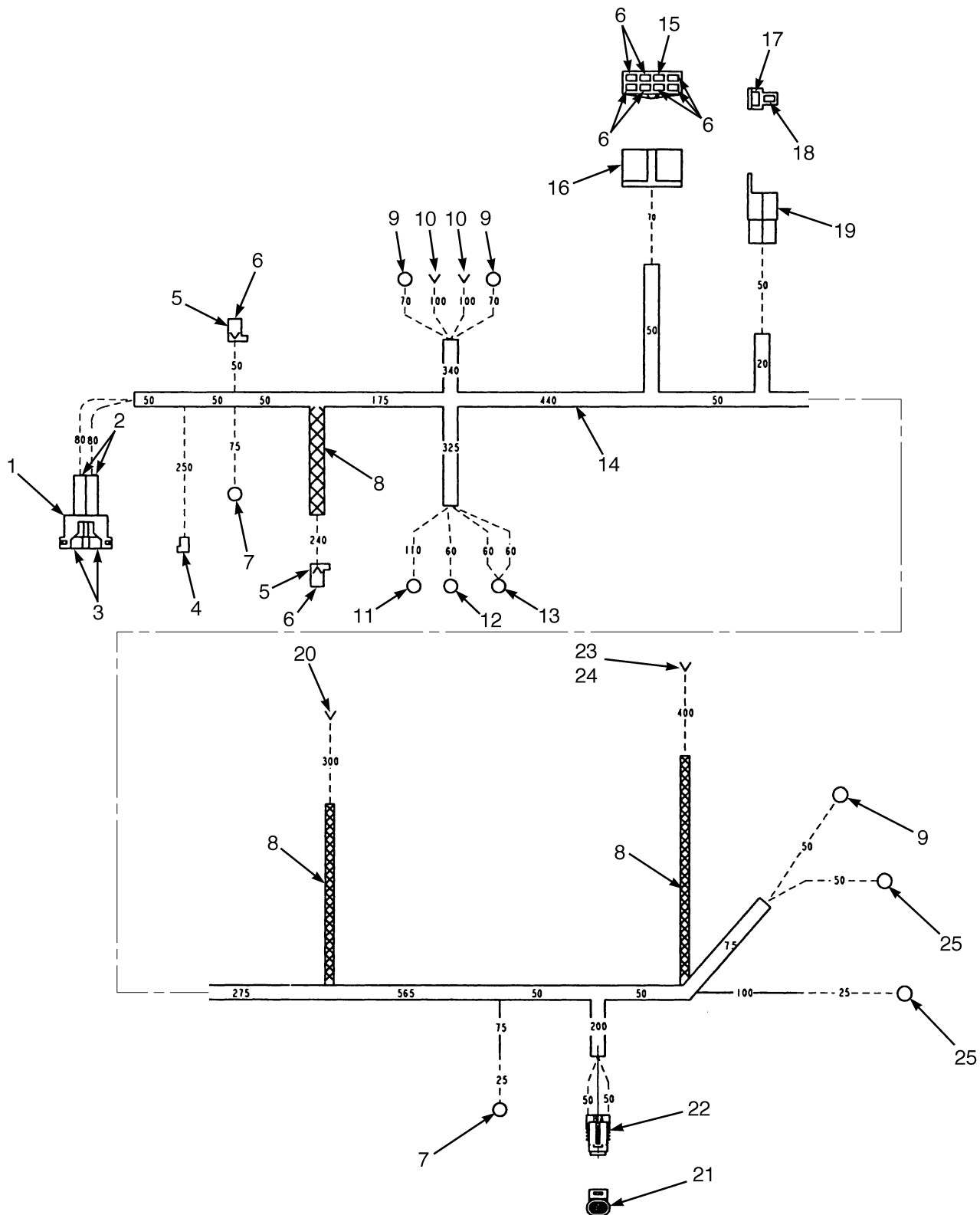
WIRE HARNESS
MAIN – DIESEL (10/1991 →)

ITEM	PART NO.	DESCRIPTION	QTY
24	277446	Connector Body	1
24	134812	Terminal	1

NOTES

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WIRE HARNESS (FIGURE 4-37) DIESEL TIER II ENGINE (S/N F006V01612Y →)



BP080227

WIRE HARNESS
DIESEL TIER II ENGINE (S/N F006V01612Y →)

ITEM	PART NO.	DESCRIPTION	QTY
	2046794	Wire Harness (Engine)	1
1	1479108	Connector	1
2	1479109	Seal	2
3	1479107	Terminal	2
3	1354384	Terminal	2
4	367540	Terminal (Female)	1
5	181046	Connector Body	2
6	134812	Terminal	9
7	148607	E-Ring	2
8	16906	Conduit	AR
9	129888	E-Ring	3
10	325789	Terminal	2
11	148610	E-Ring	1
12	129886	E-Ring	1
13	806427	E-Ring	1
14	381919	Braiding	AR
15	134811	Terminal	1
16	181054	Connector Body	1
17	134809	Terminal	1
18	134810	Terminal	1
19	181047	Connector Body	1
20	399487	Terminal	1
21	1323576	Terminal	2
22	1323586	Connector	1
23	1301720	Connector Body	1
24	370730	Terminal	1
25	129894	E-Ring	2

LPG ENGINE (S/N F006A07083 →) (S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)



WIRE HARNESS**LPG ENGINE (S/N F006A07083 →) (S/N F006D01501 ↔ S/N F006D02947 INC. 2960, 2976 EXC. 2936)**

ITEM	PART NO.	DESCRIPTION	QTY
	ab 1335002	Wire Harness	1
	cd 1369515	Wire Harness (LPG Engine)	1
1	148607	E-Ring	1
2	129886	E-Ring	3
3	129887	E-Ring	1
4	1323582	Connector	1
5	1323578	Terminal	6
6	1323579	Seal	7
7	1336868	Terminal	1
8	ab 1337350	Terminal	1
9	201953	Splice	2
10	175944	Heat Shrink (Purchased Locally)	AR
11	30492	Conduit	AR
12	1301720	Connector Body	1
13	370730	Terminal	1
14	1323580	Connector	1
15	1323576	Terminal	17
16	1323581	Plug	3
17	148606	E-Ring	1
18	129888	E-Ring	1
19	129894	E-Ring	1
20	1323586	Connector	1
21	134812	Terminal	3
22	245996	Connector Body	1
23	1327958	Connector	1
24	381919	Braiding	AR
25	201954	Splice	1
26	1330299	Connector	1
27	1336173	Terminal	1
28	1323575	Connector	1
29	181046	Connector Body	2
30	134811	Terminal	1
31	1337389	Connector	1
32	1337384	Terminal	1
33	1337386	Seal	1
34	1337388	Seal	1
35	1337390	Terminal	1
36	1330304	Terminal	2
37	1336172	Connector	1
38	1330283	Terminal	2
39	1330413	Connector (8 Pin)	1
40	1330418	Connector (Secondary Lock)	1
41	1330433	Terminal (Optional)	4
41	1330437	Terminal (Pin)	4
42	1330439	Plug	4
43	cd 181046	Connector Body	1
44	cd 134812	Terminal	1

FOOTNOTES:

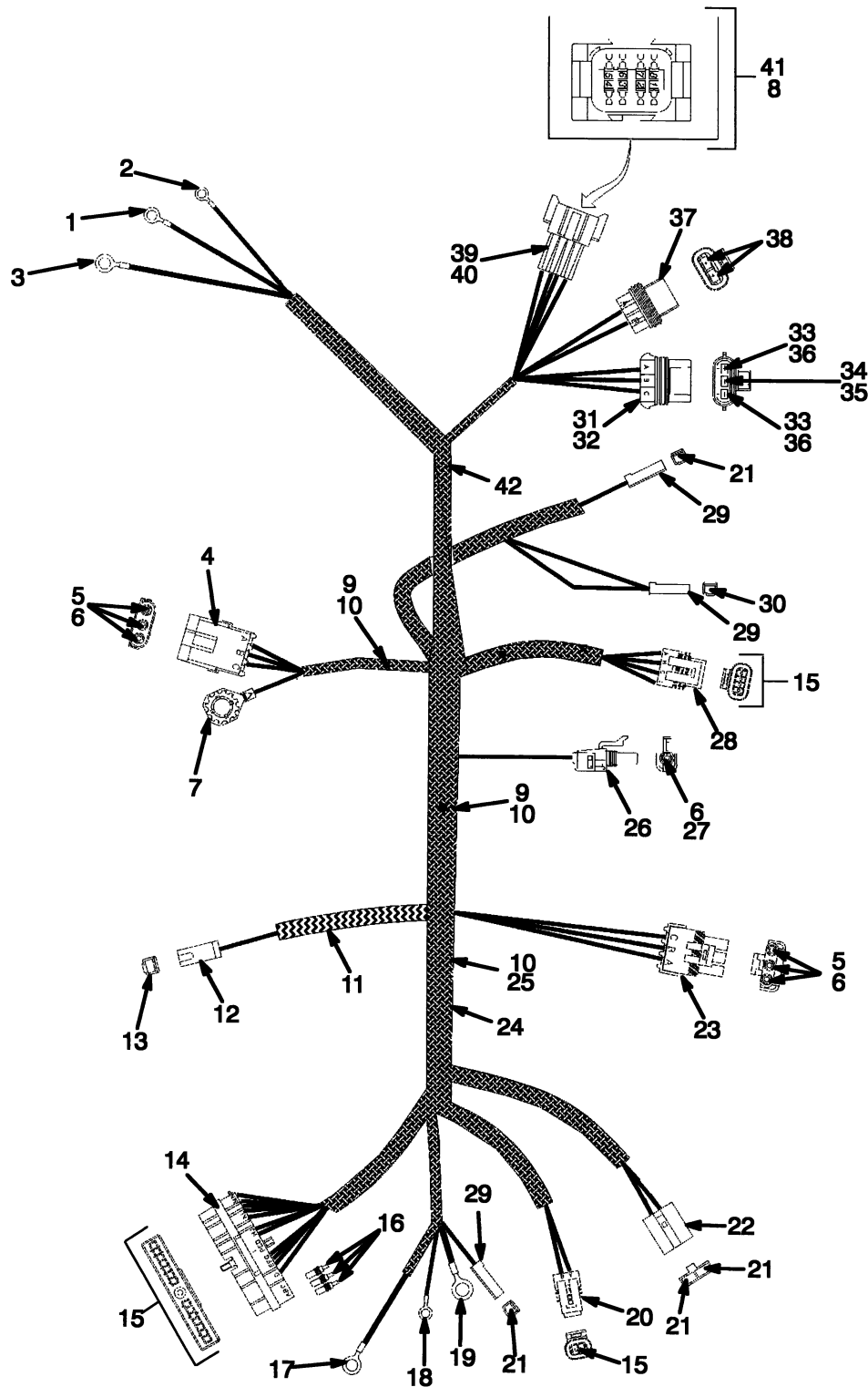
- a** → S/N F006A08275
- b** → S/N F006D01928
- c** S/N F006A08276 →
- d** S/N F006D01929 →

NOTES

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WIRE HARNESS (FIGURE 4-39)

LPG ENGINE (S/N F006D02948 ↔ S/N F006D04791 INC. 2936 EXC. 2960, 2976)

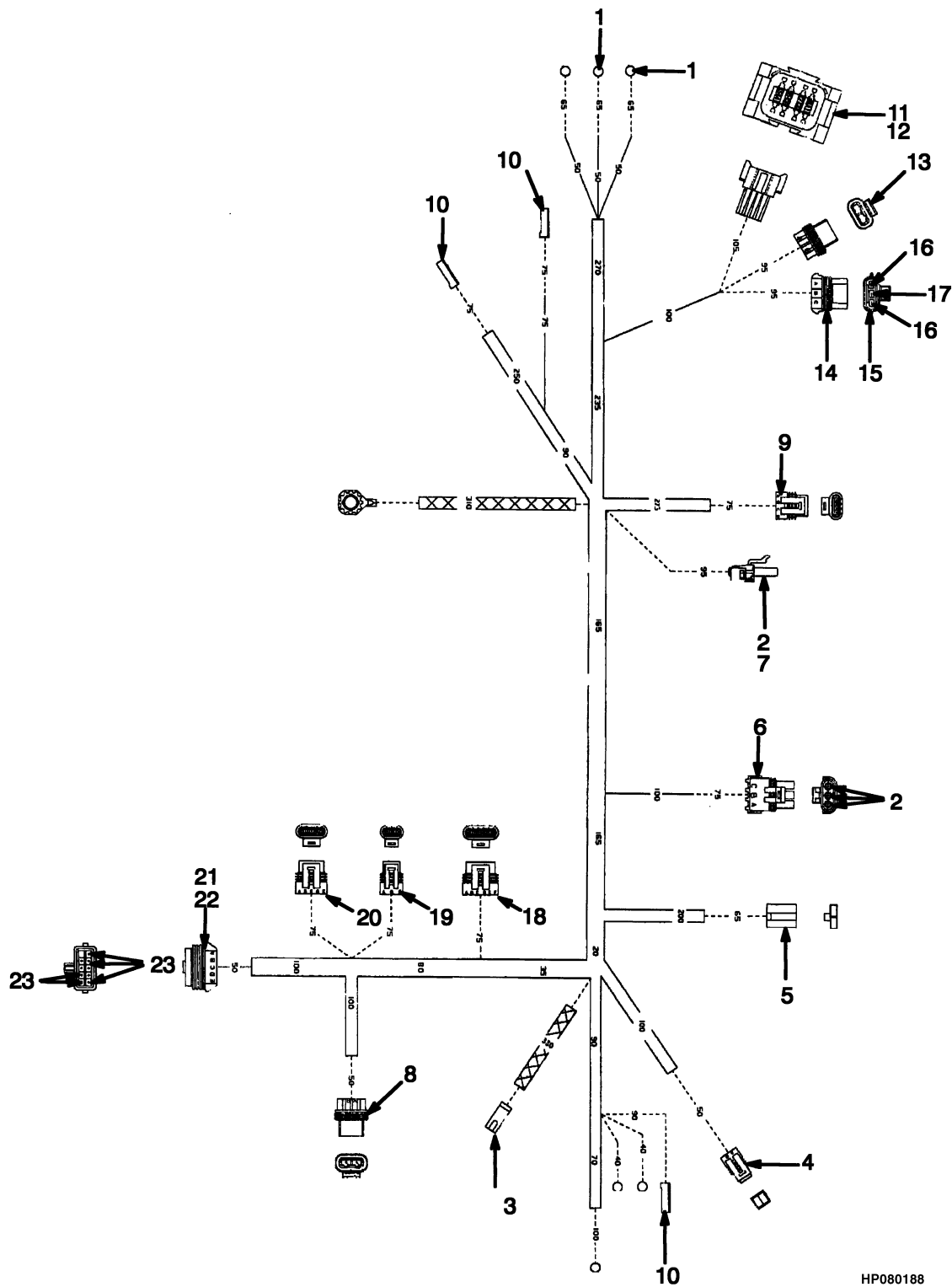


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WIRE HARNESS**LPG ENGINE (S/N F006D02948 ↔ S/N F006D04791 INC. 2936 EXC. 2960, 2976)**

ITEM	PART NO.	DESCRIPTION	QTY
	1383279	Wire Harness (LPG Engine)	1
1	148615	E-Ring	1
2	806425	E-Ring	2
3	129887	E-Ring	1
4	1323582	Connector	1
5	1323578	Terminal	6
6	1323579	Seal	7
7	1336868	Terminal	1
8	1330439	Plug	4
9	1345027	Splice	3
10	175944	Heat Shrink	AR
11	30492	Conduit	AR
12	1301720	Connector Body	1
13	370730	Terminal	1
14	1323580	Connector	1
15	1323576	Terminal	17
16	1323581	Plug	3
17	148606	E-Ring	1
18	129888	E-Ring	1
19	129894	E-Ring	1
20	1323586	Connector	1
21	134812	Terminal	4
22	245996	Connector Body	1
23	1327958	Connector	1
24	381919	Braiding	AR
25	1345029	Splice	1
26	1330299	Connector	1
27	1336173	Terminal	1
28	1323575	Connector	1
29	181046	Connector Body	2
30	134811	Terminal	1
31	1337389	Connector	1
32	1337384	Terminal	1
33	1337386	Seal	1
34	1337388	Seal	1
35	1337390	Terminal	1
36	1330304	Terminal	2
37	1336172	Connector	1
38	1330283	Terminal	2
39	1330413	Connector (8 Pin)	1
40	1330418	Connector (Secondary Lock)	1
41	1330433	Terminal (Optional)	4
41	1330437	Terminal (Pin)	4
42	1358776	Splice	1

WIRE HARNESS (FIGURE 4-40) LPG ENGINE (S/N F006D04792 →)



HP080188

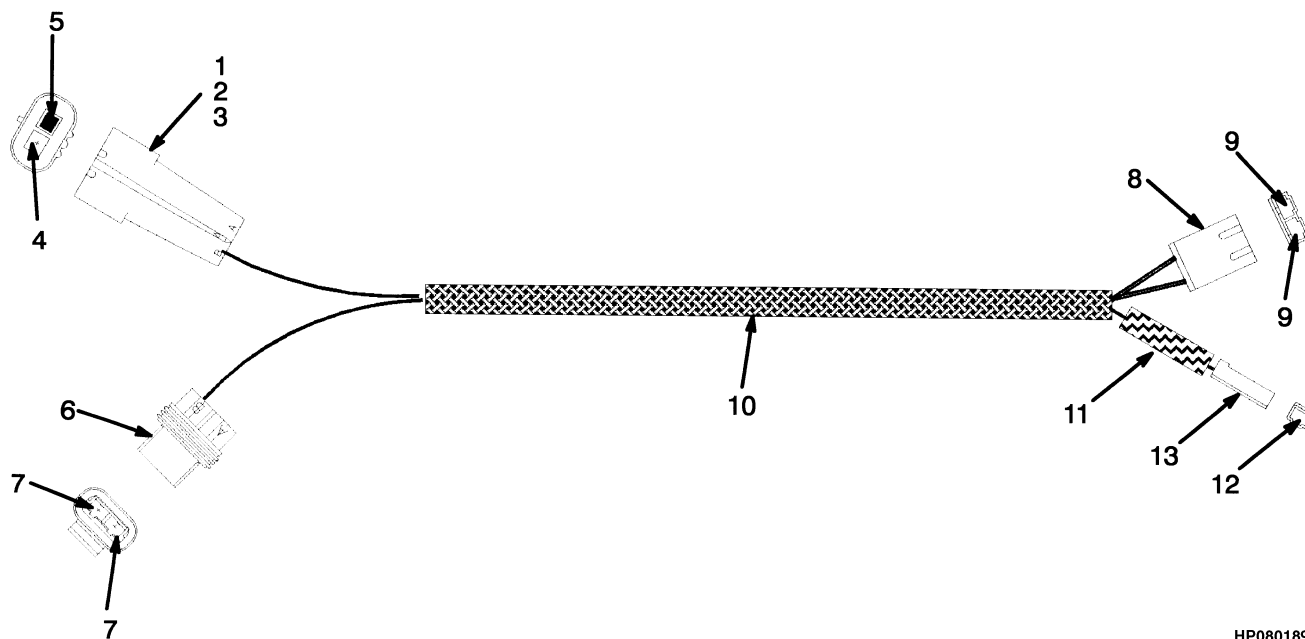
WIRE HARNESS
LPG ENGINE (S/N F006D04792 →)

ITEM	PART NO.	DESCRIPTION	QTY
	a 2035710	Wire Harness	1
	b 2046795	Wire Harness	1
1	222523	Heat Shrink	AR
2	1323579	Seal	1
3	1301720	Connector Body	1
4	1323586	Connector	1
5	245996	Connector Body	1
6	1327958	Connector	1
7	1330299	Connector	1
8	1336173	Terminal	1
9	1323575	Connector	1
10	181046	Connector Body	3
11	1330413	Connector (8 Pin)	1
12	1330418	Connector (Secondary Lock)	1
13	1336172	Connector	1
14	1337389	Connector	1
15	1337384	Terminal	1
16	1337386	Seal	2
17	1337388	Seal	1
18	1459270	Connector	1
19	1459168	Connector	1
20	1459167	Connector	1
21	1376617	Plug	1
22	1376619	Lock	2
23	1330356	Seal	5

FOOTNOTES:**a** → S/N F006D06520**b** S/N F006D06521 →

WIRE HARNESS (FIGURE 4-41)

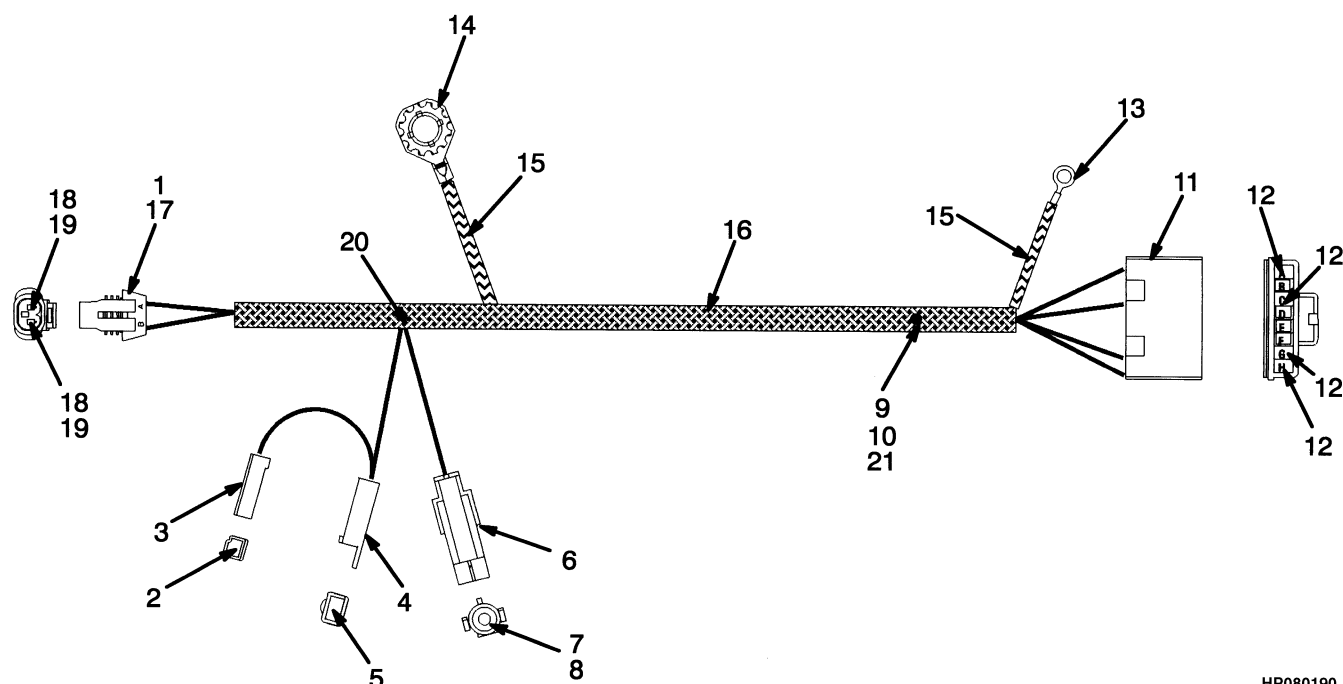
NEUTRAL START — FORWARD/REVERSE LEVER (S/N F006D01501 →) (S/N F006A07083 →)



HP080189

ITEM	PART NO.	DESCRIPTION	QTY
	1335842	Wire Harness (Neutral Start)	1
1	1336870	Connector (Frame Harness)	1
2	1336874	Seal	1
3	1336871	Lock	1
4	1337392	Terminal	1
5	1337391	Seal	1
6	1330292	Connector (Frame Harness)	1
7	1330283	Terminal	2
8	346330	Connector Body	1
9	370730	Terminal	2
10	381919	Braiding	AR
11	16906	Conduit	AR
12	134812	Terminal	1
13	181046	Connector Body	1

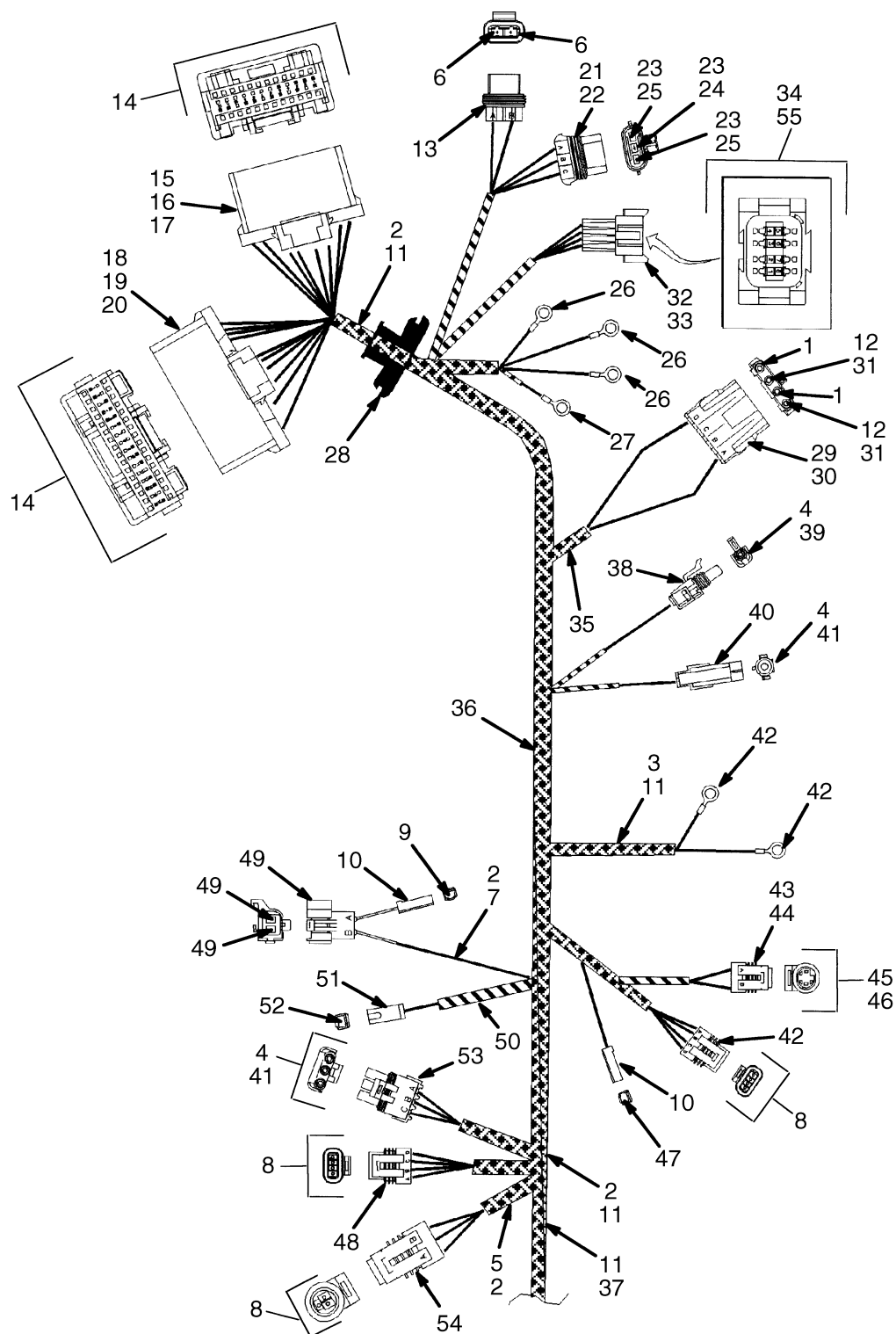
WIRE HARNESS (FIGURE 4-42)
GOVERNOR (S/N F006D01501 →) (S/N F006A07083 →)



HP080190

ITEM	PART NO.	DESCRIPTION	QTY
	1360971	Wire Harness (Governor)	1
1	1345689	Connector Body (Governor Valve)	1
2	134812	Terminal	3
3	181046	Connector Body	1
4	181045	Connector Body	1
5	256674	Terminal	1
6	1330298	Connector	1
7	1323579	Seal	1
8	1334999	Terminal	1
9	201953	Splice	2
10	175944	Heat Shrink	AR
11	346345	Connector Body (Governor Controller)	1
12	345466	Terminal	4
13	148606	E-Ring	1
14	1337350	Terminal	1
15	16906	Conduit	AR
17	1345690	Terminal (E FTG SEC LOCK)	1
18	1330355	Terminal	2
19	1330356	Seal	2
20	133481	Heat Shrink	AR
21	1345026	Splice	1

WIRE HARNESS (FIGURE 4-43)
GASOLINE ENGINE — SHEET 1 OF 2 (S/N F006D01501 →) (S/N F006A07083 →)



HP080191

WIRE HARNESS**GASOLINE ENGINE – SHEET 1 OF 2 (S/N F006D01501 →) (S/N F006A07083 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	1337891	Wire Harness (Gasoline Engine)	1
1	1327164	Seal	4
2	133481	Heat Shrink	AR
3	175944	Heat Shrink	AR
4	1323579	Seal	9
5	1330281	Terminal	3
6	1330283	Terminal	8
7	201950	Connector	3
8	1323576	Terminal	13
9	134812	Terminal	4
10	181046	Connector Body	3
11	201954	Splice	6
12	1329147	Seal	11
13	1330292	Connector (Crank Fuse)	4
14	1330277	Terminal	28
15	1327963	Connector (ECM 24 Pin)	1
16	1327964	Lock	1
17	1327965	Lock	1
18	1327966	Connector (ECM 32 Pin)	1
19	1327967	Lock	1
20	1327968	Lock	1
21	1337389	Connector (Frame Harness)	1
22	1337384	Terminal	1
23	1337390	Terminal	1
23	1330304	Terminal	5
24	1337387	Seal	1
25	1337386	Seal	2
26	148616	E-Ring	3
27	148610	E-Ring	1
28	1330290	Grommet	1
29	1334998	Connector (Fuel Pump)	1
30	1337789	Connector	1
31	1334999	Terminal	2
32	1330413	Connector (8 Pin) (Frame Harness)	1
33	1330418	Connector (Secondary Lock)	1
34	1330433	Terminal	8
35	30492	Conduit	AR
36	381919	Braiding	AR
37	222523	Heat Shrink	AR
38	1330299	Connector	1
39	1323583	Terminal	1
40	1330298	Connector	1
41	1323578	Terminal	4
42	1337350	Terminal	2
43	1330354	Connector	1
44	1330357	Terminal	1
45	1330355	Terminal	2
46	1330356	Seal	2
47	236900	Terminal	1
48	1323575	Connector (IAC)	2

WIRE HARNESS**GASOLINE ENGINE – SHEET 1 OF 2 (S/N F006D01501 →) (S/N F006A07083 →)**

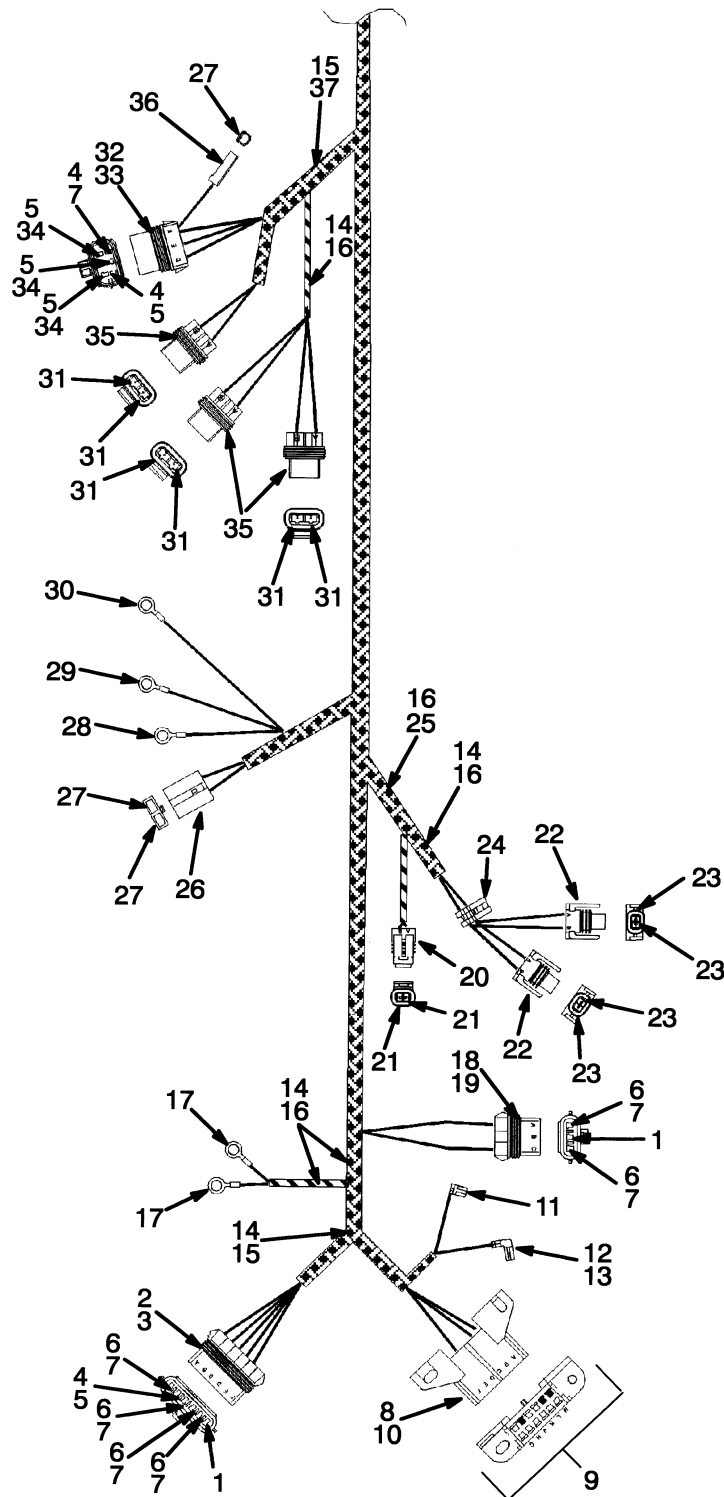
ITEM	PART NO.	DESCRIPTION	QTY
49	1314393	Plug	1
50	30492	Conduit	AR
51	1301720	Connector Body	1
52	370730	Terminal	1
53	1327958	Connector (Map Sensor)	1
54	1327957	Connector (TPS)	1
55	1330439	Plug	1

NOTES

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WIRE HARNESS (FIGURE 4-44)

GASOLINE ENGINE — SHEET 2 OF 2 (S/N F006D01501 →) (S/N F006A07083 →)



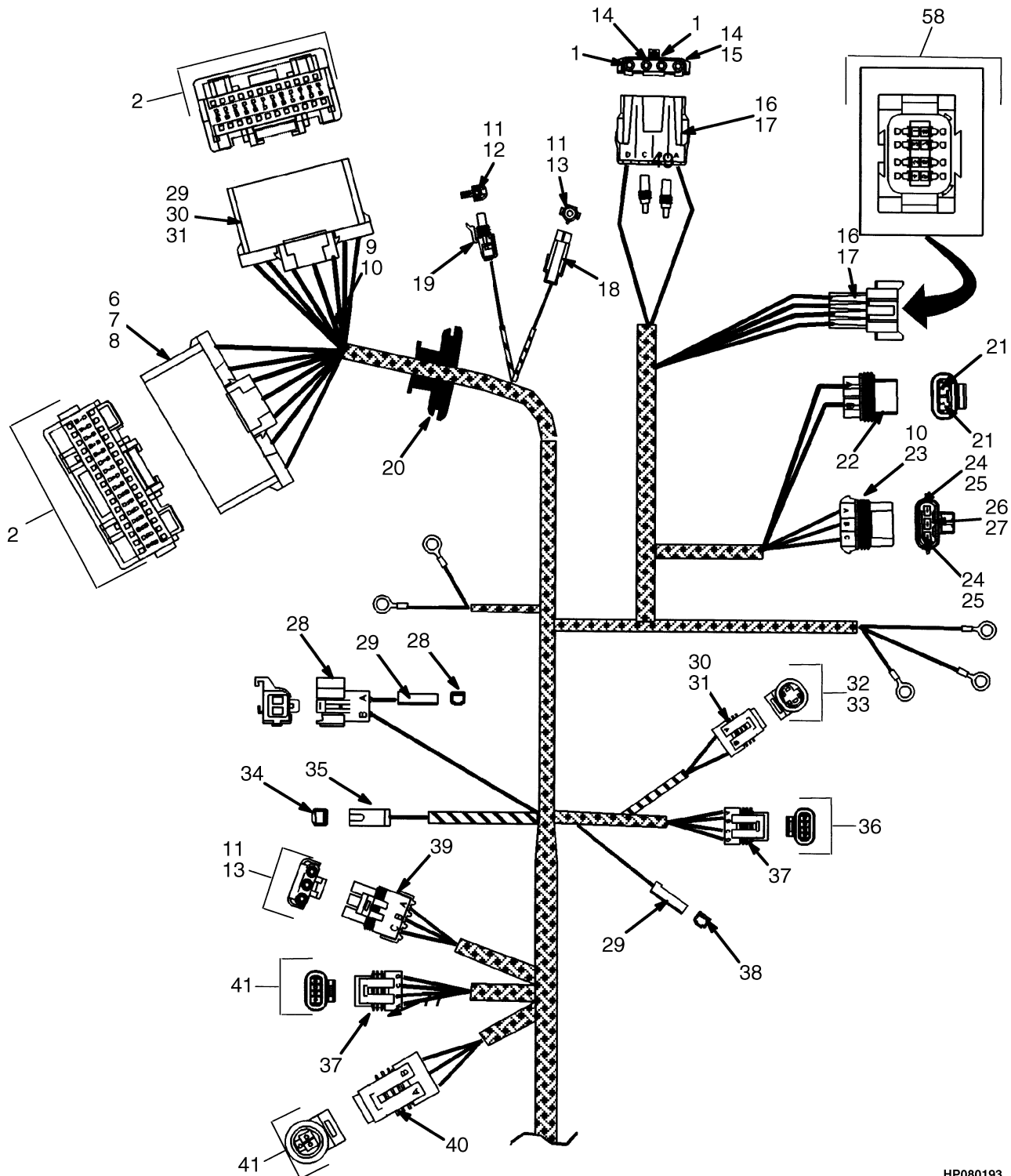
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WIRE HARNESS**GASOLINE ENGINE – SHEET 2 OF 2 (S/N F006D01501 →) (S/N F006A07083 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	1337891	Wire Harness (Gasoline Engine)	1
1	1327164	Seal	4
2	1327959	Connector (Governor Controller)	1
3	1330297	Lock	1
4	1330281	Terminal	3
5	1323579	Seal	9
6	1329148	Terminal	6
7	1329147	Seal	11
8	1327956	Connector	1
9	1330279	Terminal	4
10	1330294	Lock	1
11	1339447	Terminal	1
12	1339446	Connector	1
13	1339448	Terminal	1
14	201953	Splice	9
15	175944	Heat Shrink	AR
16	133481	Heat Shrink	AR
17	1336868	Terminal	2
18	1330284	Connector	1
19	1330295	Lock	1
20	1323586	Connector (Coolant Sensor)	1
21	1323576	Terminal	13
22	1327960	Connector (Injector)	2
23	1330296	Terminal	4
24	1330291	Grommet	1
25	201950	Connector	3
26	245996	Connector Body	1
27	134812	Terminal	4
28	129888	E-Ring	1
29	129894	E-Ring	1
30	148606	E-Ring	1
31	1330283	Terminal	8
32	1330302	Connector	1
33	1330303	Lock	1
34	1330304	Terminal	5
35	1330292	Connector (Crank Fuse)	4
36	181046	Connector Body	3
37	201954	Splice	6

WIRE HARNESS (FIGURE 4-45)

GASOLINE ENGINE — SHEET 1 OF 2 (S/N F006D02948 ↔ S/N F006D05319 INC. 2936 EXC. 2960, 2976)



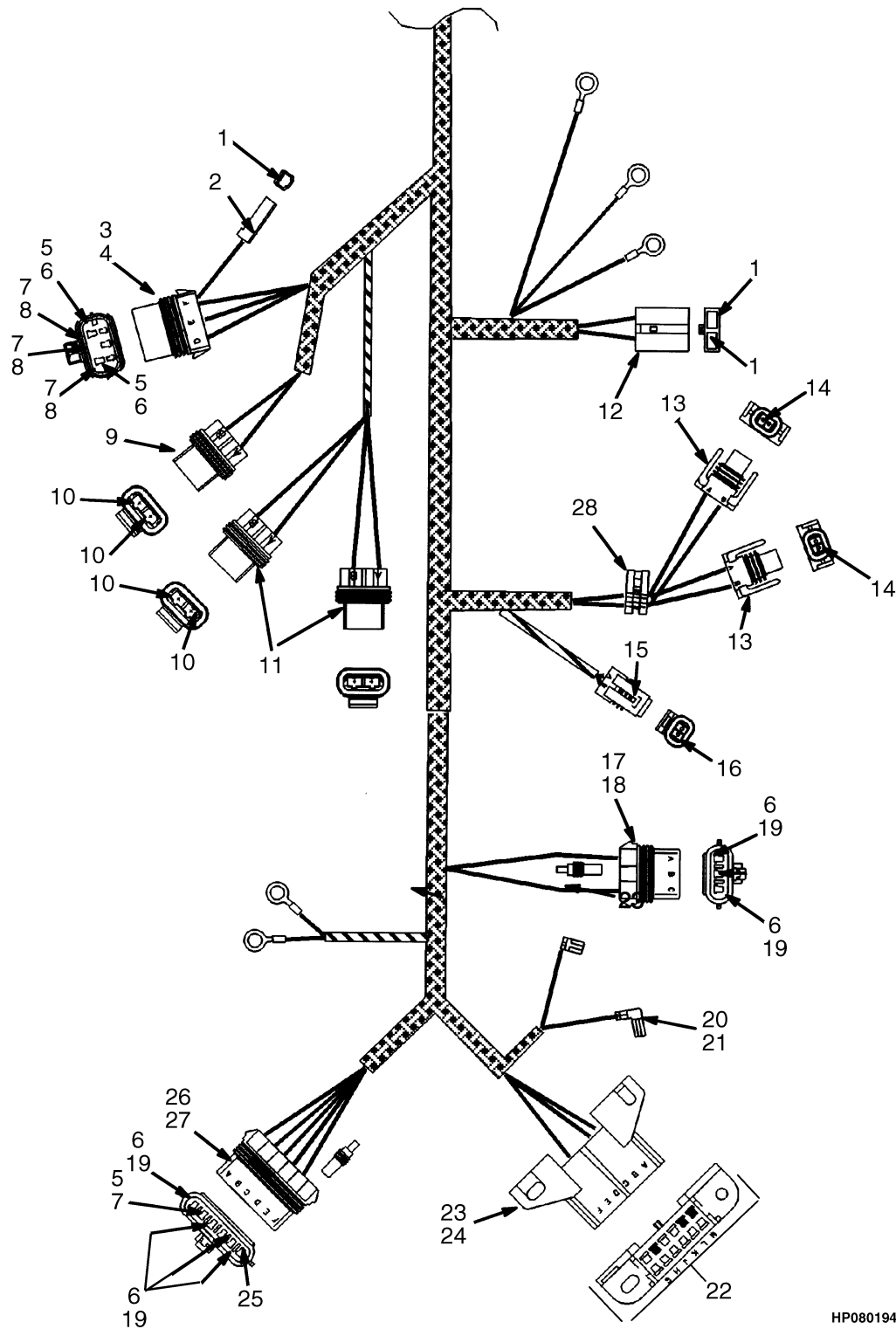
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WIRE HARNESS**GASOLINE ENGINE – SHEET 1 OF 2 (S/N F006D02948 ↔ S/N F006D05319 INC. 2936 EXC. 2960, 2976)**

ITEM	PART NO.	DESCRIPTION	QTY
	1383277	Wire Harness	1
1	1327164	Seal	4
2	1330277	Terminal	28
3	1327963	Connector (ECM 24 Pin)	1
4	1327964	Lock	1
5	1327965	Lock	1
6	1327966	Connector (ECM 32 Pin)	1
7	1327967	Lock	1
8	1327968	Lock	1
9	1323586	Connector (Coolant Sensor)	1
10	1337384	Terminal	1
11	1323579	Seal	6
12	1323583	Terminal	1
13	1323578	Terminal	4
14	1329147	Seal	13
15	1334999	Terminal	2
16	1330413	Connector (8 Pin) (Frame Harness)	1
16	1334998	Connector (Fuel Pump)	1
17	1330418	Connector (Secondary Lock)	1
17	1337789	Connector	1
18	1330298	Connector	1
19	1330299	Connector	1
20	1330290	Grommet	1
21	1330283	Terminal	8
22	1330292	Connector (Crank Fuse)	4
23	1337389	Connector (Frame Harness)	1
24	1330304	Terminal	5
25	1337386	Seal	2
26	1337390	Terminal	1
27	1337387	Seal	1
28	1314393	Plug	1
29	181046	Connector Body	3
30	1330354	Connector	1
31	1330357	Terminal	1
32	1330355	Terminal	2
33	1330356	Seal	2
34	370730	Terminal	1
35	1301720	Connector Body	1
36	1323576	Terminal	13
37	1323575	Connector (IAC)	2
38	236900	Terminal	1
39	1327958	Connector (Map Sensor)	1
40	1327957	Connector (TPS)	1
41	245996	Connector Body	1

WIRE HARNESS (FIGURE 4-46)

GASOLINE ENGINE — SHEET 2 OF 2 (S/N F006D02948 ↔ S/N F006D05319 INC. 2936 EXC. 2960, 2976)

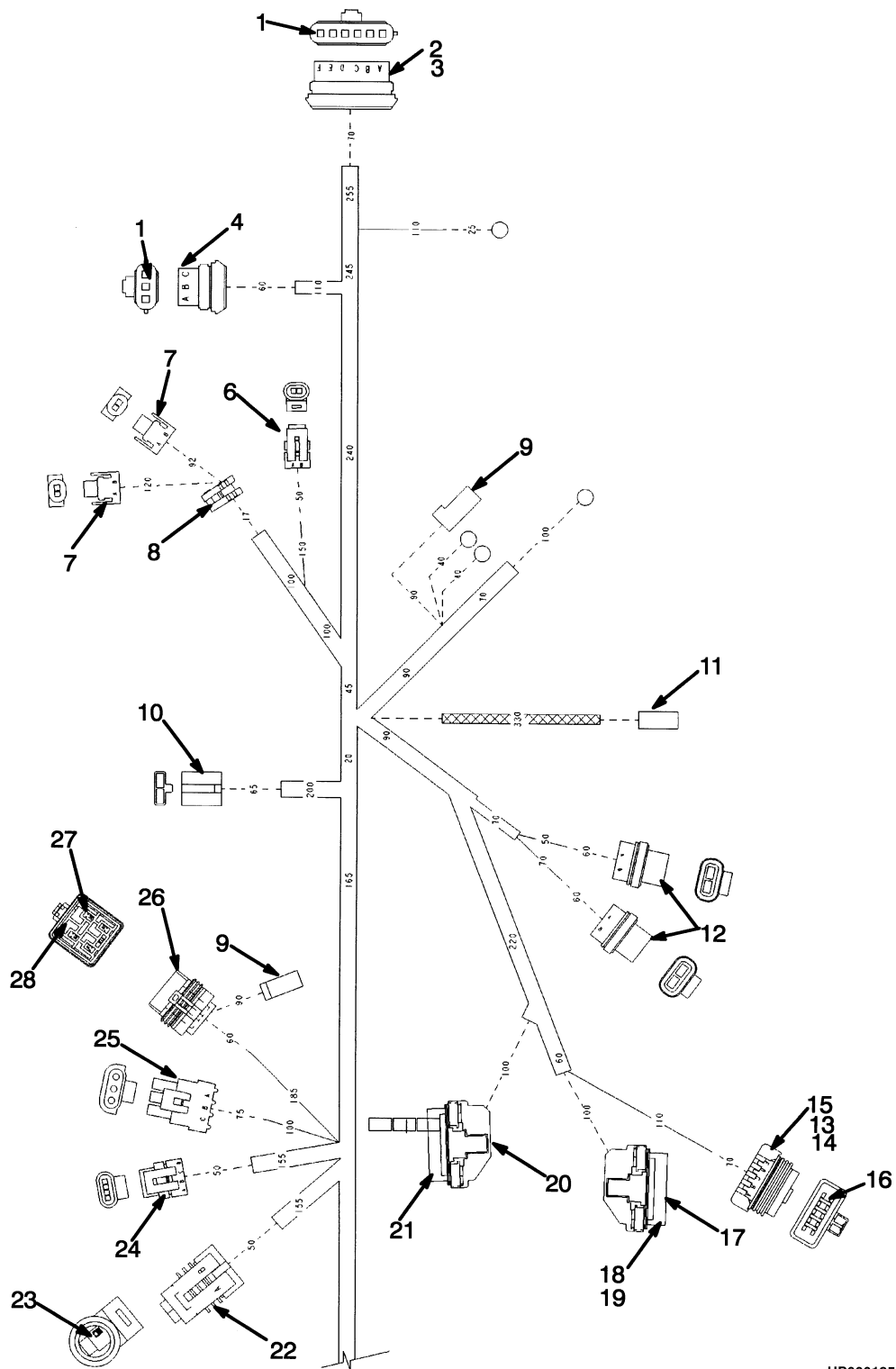


HP080194

WIRE HARNESS**GASOLINE ENGINE – SHEET 2 OF 2 (S/N F006D02948 ↔ S/N F006D05319 INC. 2936 EXC. 2960, 2976)**

ITEM	PART NO.	DESCRIPTION	QTY
	1383277	Wire Harness	1
1	134812	Terminal	4
2	181046	Connector Body	3
3	1330302	Connector	1
4	1330303	Lock	1
5	1330281	Terminal	3
6	1329147	Seal	13
7	1323579	Seal	6
8	1330304	Terminal	5
9	1330292	Connector (Crank Fuse)	4
10	1330283	Terminal	8
11	1327968	Lock	1
12	245996	Connector Body	1
13	1327960	Connector (Injector)	2
14	1330296	Terminal	4
15	1323586	Connector (Coolant Sensor)	1
16	1323576	Terminal	13
17	1330284	Connector	1
18	1330295	Lock	1
19	1329148	Terminal	6
20	1339446	Connector	1
21	1339448	Terminal	1
22	1330279	Terminal	3
23	1327956	Connector	1
24	1330294	Lock	1
25	1327164	Seal	4
26	1327959	Connector (Governor Controller)	1
27	1330297	Lock	1

WIRE HARNESS (FIGURE 4-47) GASOLINE ENGINE — SHEET 1 OF 2

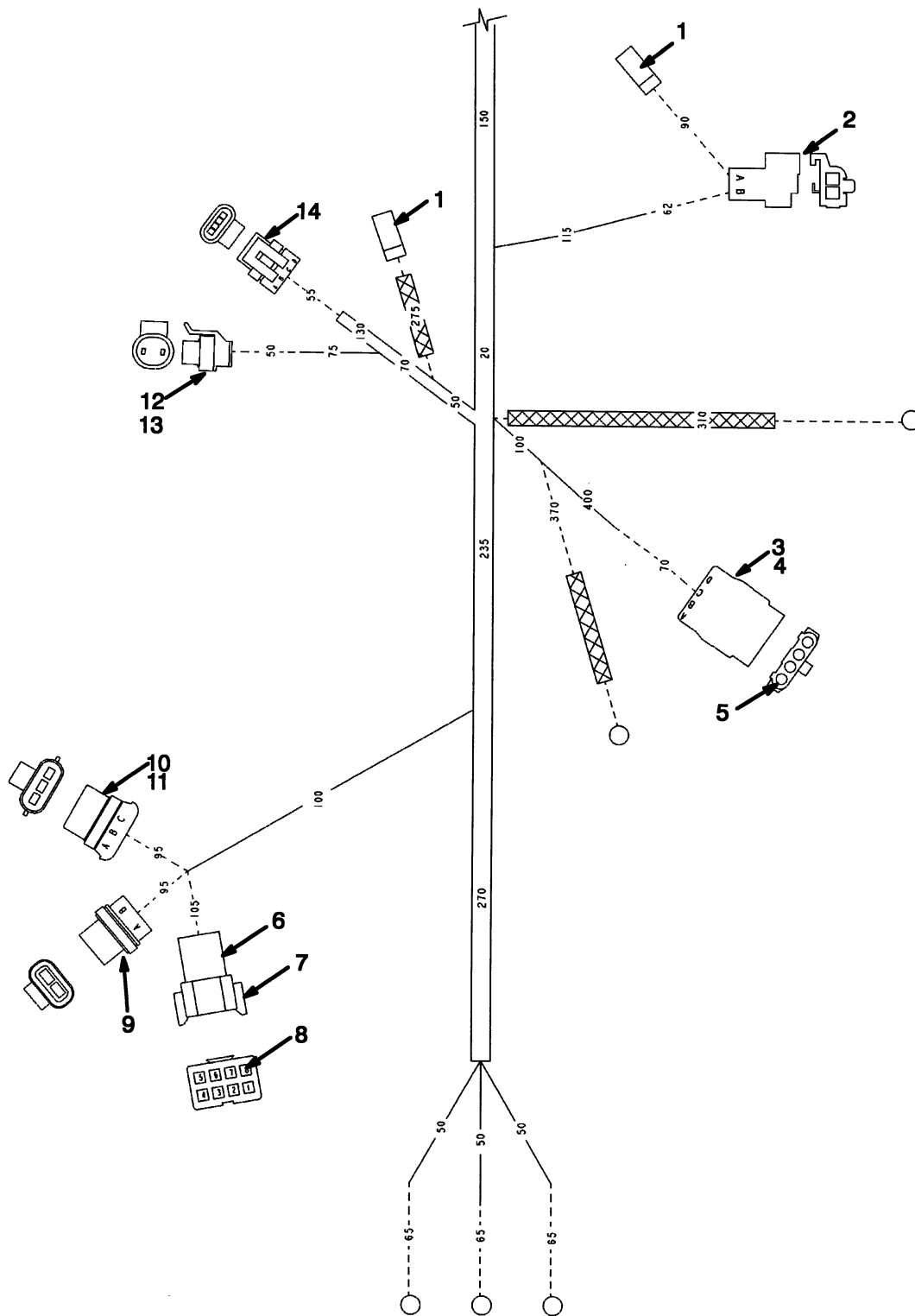


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WIRE HARNESS
GASOLINE ENGINE – SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	b 2036694	Wire Harness	1
	c 2046793	Wire Harness	1
	d 2049783	Wire Harness	1
1	1327164	Seal	4
2	1327959	Connector	1
3	1330297	Lock	1
4	1330284	Connector	1
	a 1330295	Lock	1
6	1323586	Connector	1
7	1382128	Connector	2
8	1330291	Grommet	1
9	181046	Connector Body	2
10	1323586	Connector	1
11	1301720	Connector Body	1
12	1330292	Connector	2
13	1376617	Plug	1
14	1376619	Lock	1
15	1376618	Receptacle	1
16	1351139	Seal	15
17	1350223	Cap	1
18	1350220	Connector	2
19	1350221	Seal	2
20	1350222	Cap	1
21	1350219	Connector (RH) (RH)	1
22	1327957	Connector	1
23	1323576	Terminal	3
24	1323575	Connector	1
25	1327958	Connector	1
26	1461744	Connector Body	1
27	1323579	Seal	15
28	1375797	Terminal	3

FOOTNOTES:**a** Not Illustrated**b** S/N F006D05320 ↔ S/N F006D06520**c** S/N F006D06521 ↔ S/N F006V001792Z**d** S/N F006V01793Z →

WIRE HARNESS (FIGURE 4-48)
GASOLINE ENGINE — SHEET 2 OF 2

HP080196

WIRE HARNESS
GASOLINE ENGINE – SHEET 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	a 2036694	Wire Harness	1
	b 2046793	Wire Harness	1
	c 2049783	Wire Harness	1
1	181046	Connector Body	2
2	1314393	Plug	1
3	1334998	Connector	1
4	1337789	Connector	1
5	1323579	Seal	4
6	1330413	Connector (8 Pin)	1
7	1330418	Connector (Secondary Lock)	1
8	1330437	Terminal (Pin)	8
9	1330292	Connector	1
10	1337389	Connector	1
11	1337384	Terminal	1
12	1330354	Connector	1
13	1330357	Terminal	1
14	1323575	Connector	1

FOOTNOTES:

a S/N F006D05320 ↔ S/N F006D06520
b S/N F006D06521 ↔ S/N F006V001792Z

c S/N F006V01793Z →

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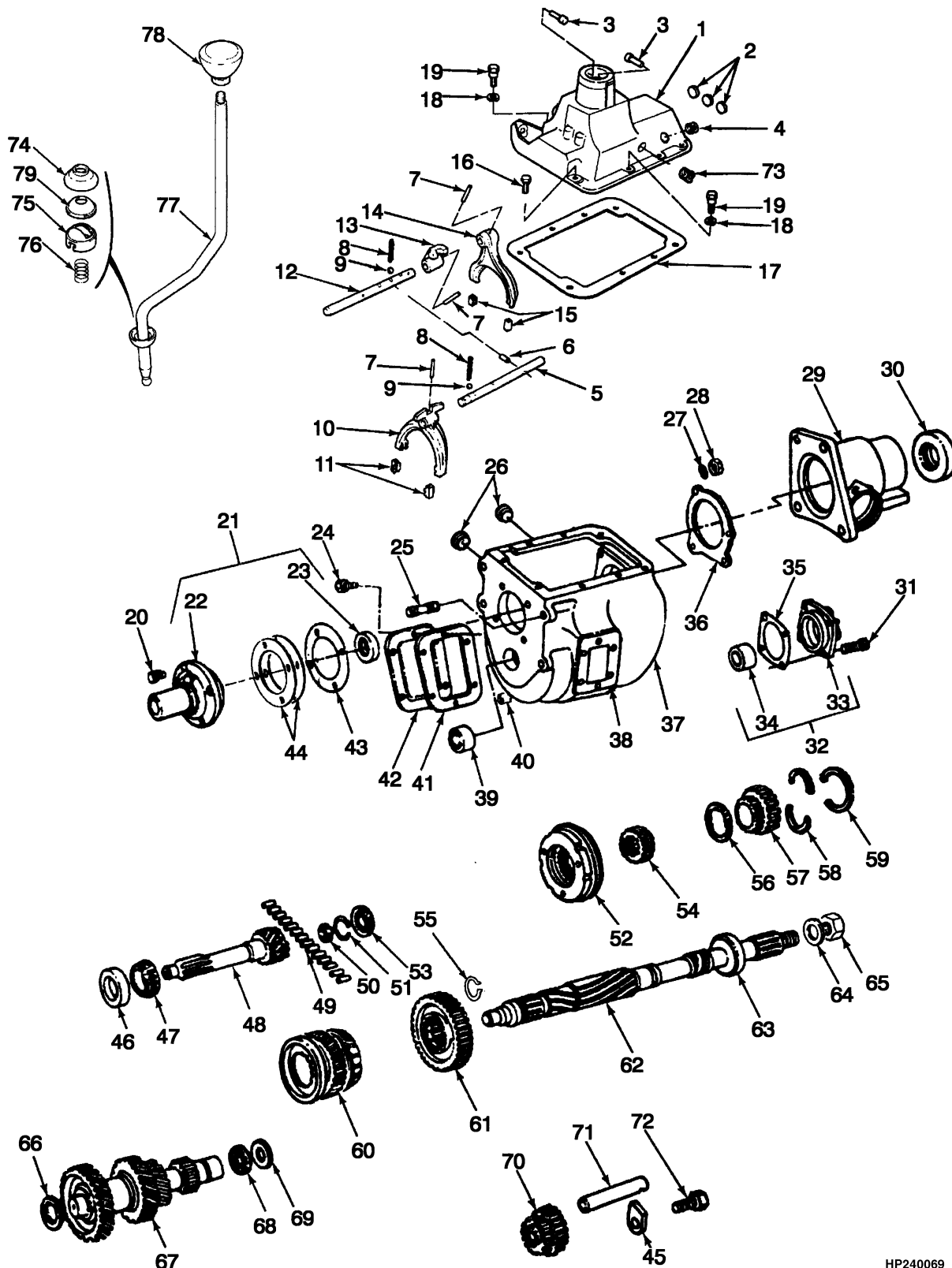
5

TRANSMISSION

**SECTION 5
TRANSMISSION**

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TRANSMISSION (FIGURE 5-1)



HP240069

TRANSMISSION
OIL CLUTCH (→ S/N F006D03779)

ITEM	PART NO.	DESCRIPTION	QTY
	a 284133	Transmission Assy	1
1	318657	Cover	1
2	150511	Plug	3
3	248158	Pin (Trunnion)	2
4	150512	Plug (Rail)	1
5	150509	Rail	1
6	318660	Pin (Rail)	1
7	150514	Pin (Shift)	3
8	178473	Spring	2
9	21278	Ball	2
10	321001	Fork	1
11	233909	Insert	2
12	318658	Rail	1
13	150506	Lug (First/Second)	1
14	150507	Fork	1
15	150508	Insert	2
16	53992	Screw	6
17	286750	Gasket	1
18	53999	Lockwasher	2
19	53970	Screw	2
20	53934	Screw	4
21	318653	Drive Gear	1
22	319139	Retainer	1
23	178446	Seal	1
24	199571	Capscrew	6
25	319143	Stud	4
26	15304	Fitting	2
27	15927	Lockwasher	4
28	15008	Nut	4
29	319141	Retainer	1
30	319142	Oil Seal	1
31	53992	Screw	4
32	150544	Bearing	1
33	319140	Retainer	1
34	131456	Needle Bearing	1
35	150548	Gasket	1
36	318664	Gasket	1
37		Case	1
38		Clip	1
38	238207	Magnet	1
39	183120	Needle Bearing	1
40	318654	Pipe	1
41	53920	Gasket	2
42	53919	Cover	2
43	178440	Gasket	2
44	178441	Shim	AR
44	178442	Shim	AR
44	178443	Shim	AR
45	150552	Plate	1
46	276440	Bearing Cup	1

TRANSMISSION

OIL CLUTCH (→ S/N F006D03779)

ITEM	PART NO.	DESCRIPTION	QTY
47	276439	Bearing Cone	3
48	318652	Gear (Main Drive)	1
49	53951	Roller	14
50	150538	Washer	1
51	53958	Snap Ring	1
52	244230	Clutch Gear	1
53	178469	Thrust Bearing	1
54	178451	Gear	1
55	1314296	Snap Ring	2
56	88332	Shim (0.010 in.) (0.010 in.)	AR
56	88333	Shim (0.012 in.) (0.012 in.)	AR
57	317749	Kit-Gear (Third)	AR
58	53969	Retaining Ring	1
59	150521	Snap Ring	1
60	150520	Synchronizer	1
61	150524	Gear	1
62	150519	Spacer	1
62	318651	Shaft	1
63	127958	Ball Bearing	1
64	161277	Washer	1
65	161276	Nut	1
66	150550	Thrust Washer	1
67	318665	Gear	1
68	150546	Thrust Bearing	1
69	150547	Race	1
70	318656	Idler Gear	1
71	150551	Shaft	1
72	199571	Capscrew	1
73	284173	Plug	1
74	138925	Boot	1
75	112825	Cup	1
76	112826	Spring	1
77	340817	Lever	1
78	154884	Knob	1
79	112824	Cup	1

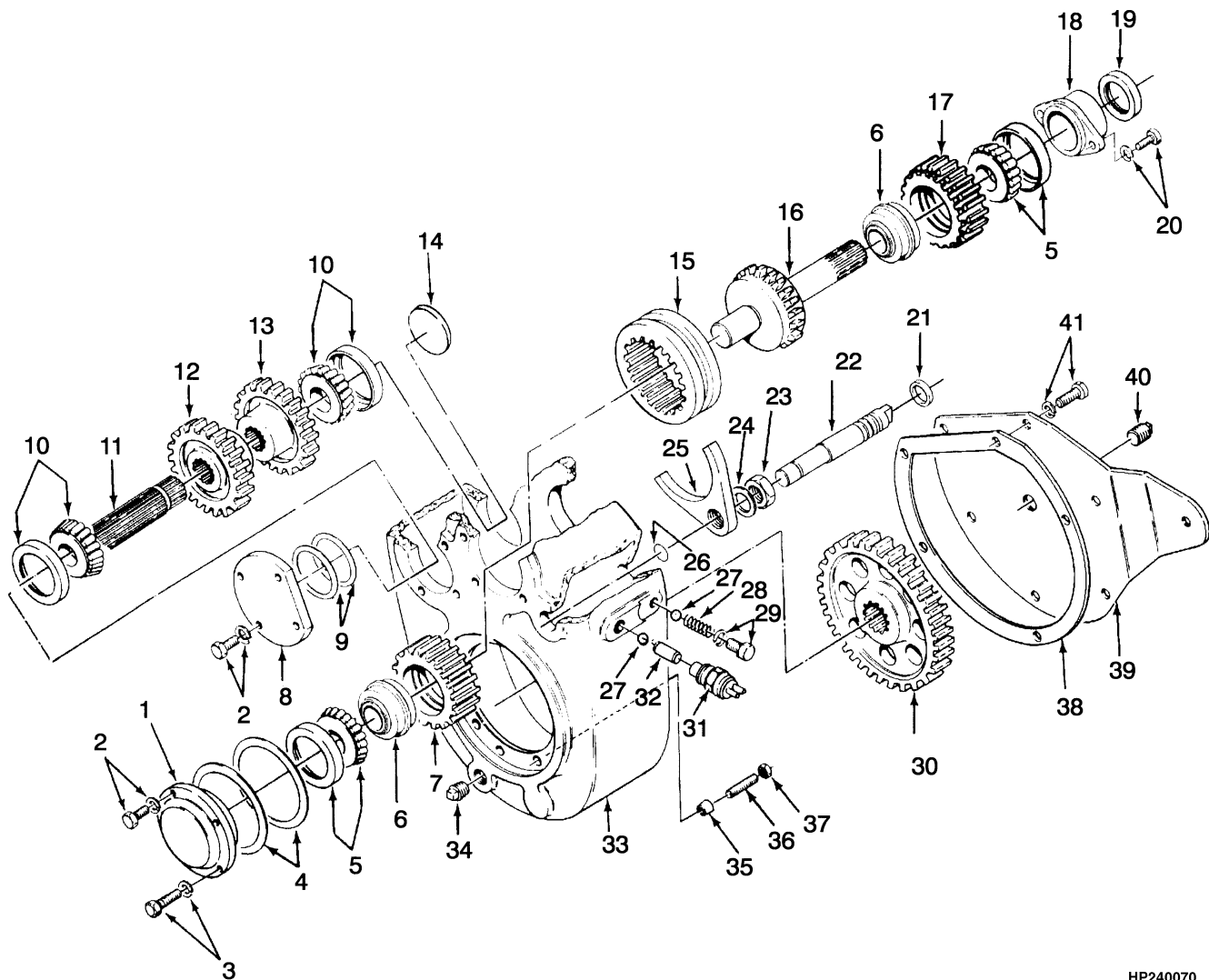
FOOTNOTES:

- a** Remanufactured Transmission 864847 R

NOTES

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SPEED REDUCER (FIGURE 5-2) OIL CLUTCH (→ S/N F006D03779)



HP240070

SPEED REDUCER
OIL CLUTCH (→ S/N F006D03779)

ITEM	PART NO.	DESCRIPTION	QTY
	1322674	Speed Reducer	1
1	284140	Bearing	1
2	15156	Lockwasher	6
2	16805	Capscrew	6
3	15156	Lockwasher	2
3	16815	Capscrew	2
4	132480	Shim (0.005 in.)	AR
4	132481	Shim (0.007 in.)	AR
4	132482	Shim (0.020 in.)	AR
5	230421	Bearing Cup	2
5	230422	Bearing Cone	2
6	284141	Bearing Set	2
7	284135	Gear	1
8	284257	Bearing Cap	1
9	284247	Shim (0.005 in.)	AR
9	284248	Shim (0.007 in.)	AR
9	284249	Shim (0.020 in.)	AR
10	198208	Bearing Cone	2
10	30282	Bearing Cup	2
11	284250	Shaft (Counterbalance)	1
12	284129	Gear	1
13	284128	Gear	1
14	112323	Plug	1
15	239483	Clutch Assy	1
16	284136	Shaft	1
17	284134	Gear	1
18	313022	Sealant	AR
18	350053	Carrier	1
19	208348	Seal	1
20	15156	Lockwasher	2
20	16598	Capscrew	2
21	145753	Seal	1
22	240763	Shifter	1
23	15036	Nut	1
24	15936	Lockwasher	1
25	107945	Fork (Shift)	1
26	145752	Oil Seal	1
27	21278	Ball	2
28	105443	Spring	1
29	15157	Lockwasher	1
29	17149	Capscrew	1
30	284130	Gear	1
31	ab 1388574	Switch (Neutral Start)	1
31	176409	Switch	1
32	248339	Pin (Switch)	1
33	340782	Housing	1
34	15303	Plug	1
35	153778	Thimble	8
36	226414	Loctite	AR
36	282656	Stud	8

SPEED REDUCER
OIL CLUTCH (→ S/N F006D03779)

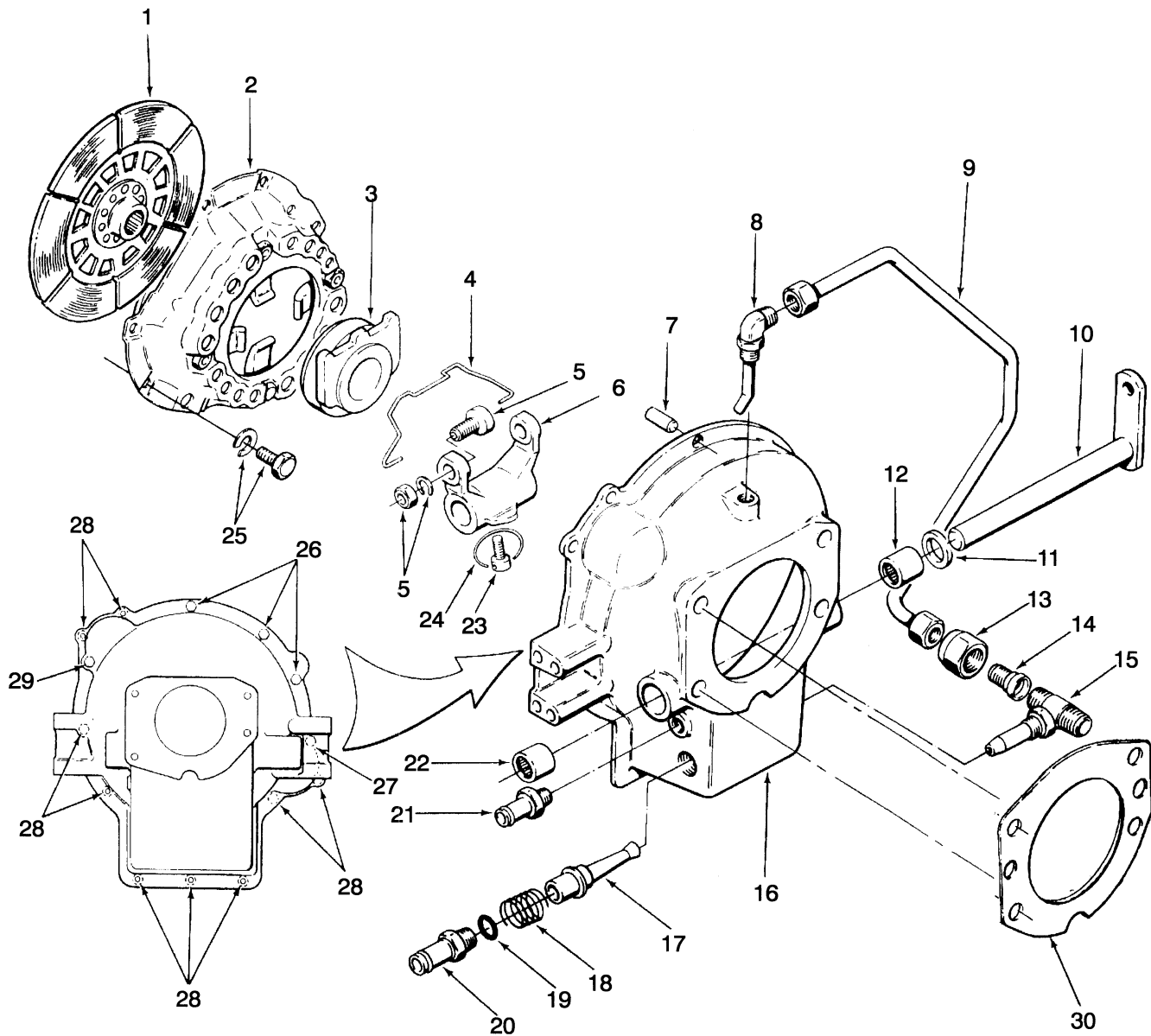
ITEM	PART NO.	DESCRIPTION	QTY
37	278326	Nut	8
38	107937	Gasket	1
39	340783	Cover	1
40	15304	Fitting	1
41	15156	Lockwasher	6
41	16598	Capscrew	6

FOOTNOTES:**a** S/N F006A03791 →**b** S/N F006D01501 →

NOTES

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CLUTCH (FIGURE 5-3) OIL CLUTCH (→ S/N F006D03779)



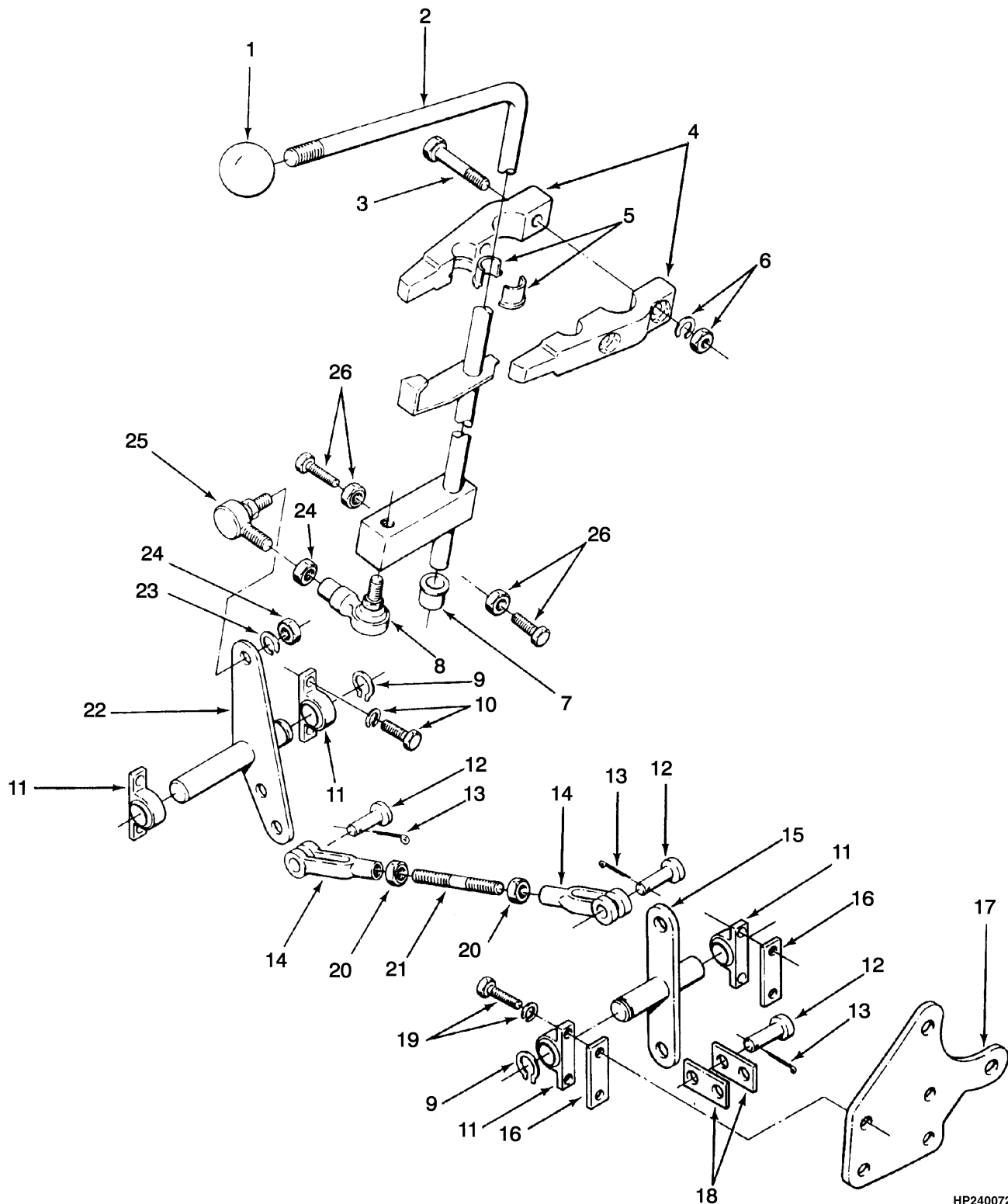
HP240071

CLUTCH
OIL CLUTCH (→ S/N F006D03779)

ITEM	PART NO.	DESCRIPTION	QTY
1	1350030	Clutch Plate	1
2	304444	Cover	1
3	172049	Bearing	1
3	230303	Bearing	1
4	172047	Spring	1
5	15026	Nut	2
5	15156	Lockwasher	2
5	172048	Cam Follower	2
6	366705	Yoke	1
7	186420	Dowel	2
8	344310	Nozzle	1
9	344325	Tube Assy	1
10	344307	Crankshaft	1
11	145753	Seal	1
12	176356	Needle Bearing	1
13	17319	Fitting	1
14	17218	Fitting	1
15	344365	Nozzle	1
16	313022	Sealant	AR
16	344311	Housing	1
17	357305	Jet	1
18	344344	Spring	1
19	39374	O-Ring	1
20	144050	Fitting	1
21	109417	Fitting	1
22	69017	Needle Bearing	1
23	27936	Screw	1
24	67355	Wire	AR
25	15156	Lockwasher	8
25	277826	Capscrew	8
26	a 15056	Nut	3
26	15156	Lockwasher	3
26	a 16816	Capscrew	3
26	b 16828	Capscrew	3
27	a 15156	Lockwasher	1
27	a 16828	Capscrew	1
28	15156	Lockwasher	9
28	16828	Capscrew	9
29	b 15156	Lockwasher	1
29	b 18542	Capscrew	1
30	1329629	Gasket	1

FOOTNOTES:**a** Diesel**b** Gasoline and LPG

CONTROL LINKAGE (FIGURE 5-4) OIL CLUTCH — FORWARD/REVERSE LEVER (→ S/N F006A03790)



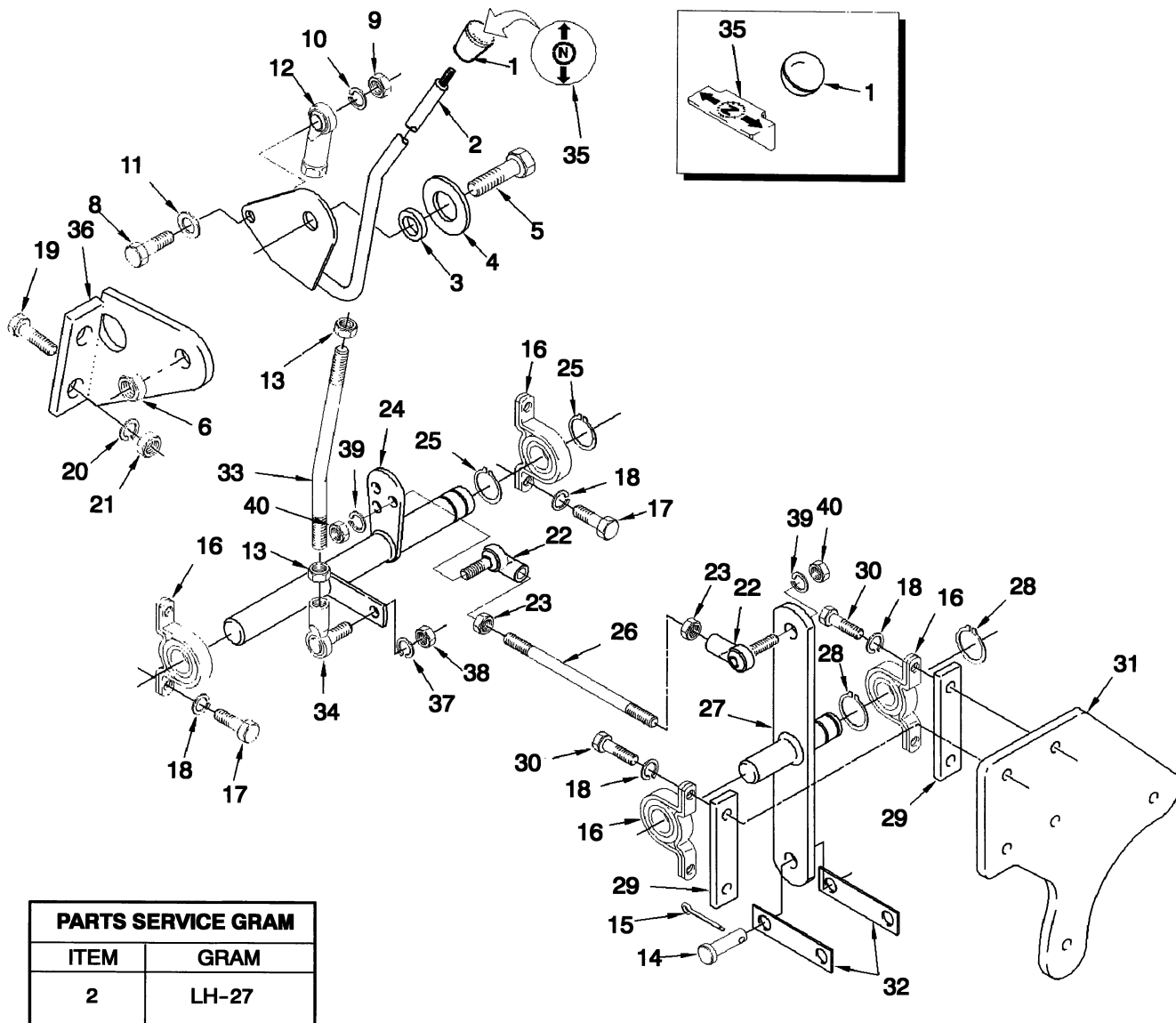
HP240072

CONTROL LINKAGE **OIL CLUTCH – FORWARD/REVERSE LEVER (→ S/N F006A03790)**

ITEM	PART NO.	DESCRIPTION	QTY
1	308993	Knob	1
2	350080	Lever	1
3	296012	Capscrew	1
4	374024	Bracket	2
5	374005	Bushing	2
6	239503	Nut	1
6	293780	Lockwasher	1
7	350082	Bushing	1
8	357263	Ball Joint	1
9	58951	Snap Ring	3
10	287817	Capscrew	4
10	292680	Washer	4
11	313859	Bearing	4
12	133683	Pin	4
13	15211	Cotter Pin	4
14	138	Rod End	2
15	350090	Crank	1
16	350086	Bar	2
17	350093	Plate	1
18	105710	Plate	2
19	287816	Capscrew	4
19	292680	Washer	4
20	15025	Nut	2
21	29635	Link	1
22	350083	Crank	1
23	15154	Lockwasher	1
24	15004	Nut	2
25	215009	Rod End	1
26	136687	Nut	2
26	287816	Capscrew	2

CONTROL LINKAGE (FIGURE 5-5)

OIL CLUTCH — FORWARD/REVERSE LEVER (S/N F006A03791 →) (S/N F006D01501 ↔ S/N F006D03779)



HP240073

CONTROL LINKAGE**OIL CLUTCH – FORWARD/REVERSE LEVER (S/N F006A03791 →) (S/N F006D01501 ↔ S/N F006D03779)**

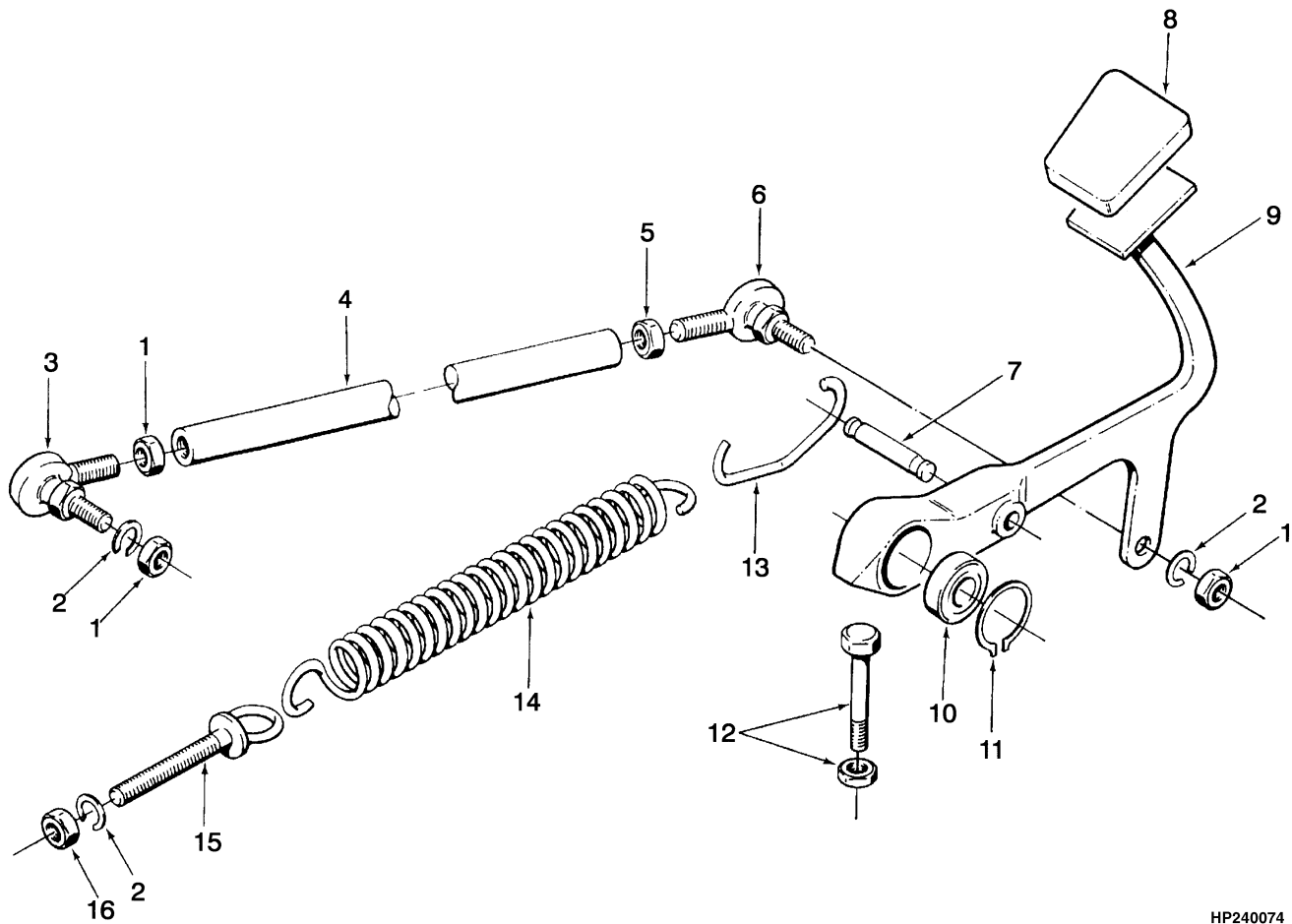
ITEM	PART NO.	DESCRIPTION	QTY
1	cd 154878	Knob	1
1	b 370624	Knob	1
2	b 1303155	Lever	1
2	cd 1359108	Lever	1
3	1303158	Bushing	1
4	1300139	Washer	1
5	292515	Capscrew	1
6	316826	Nut	1
	a 15026	Nut	2
8	16316	Capscrew	1
9	15056	Nut	1
10	15156	Lockwasher	1
11	15134	Washer	1
12	161652	Rod End	1
13	b 15026	Nut	2
13	cd 15026	Nut	3
14	133683	Pin	4
15	15211	Cotter Pin	4
16	313859	Bearing	4
17	287817	Capscrew	4
18	292680	Washer	8
19	176640	Bolt	2
20	292681	Lockwasher	2
21	239503	Nut	2
22	3014128	Rod End	2
23	15025	Nut	2
24	1310988	Crank	1
25	58951	Snap Ring	2
26	357278	Link	1
27	350090	Crank	1
28	58951	Snap Ring	2
29	350086	Bar	2
30	287816	Capscrew	4
31	350093	Plate	1
32	105710	Plate	2
33	1310995	Link	2
34	186866	Rod End (RH)	1
35	b 1300215	Adhesive	AR
35	b 370637	Indicator	1
36	1303154	Bracket	1
37	15156	Lockwasher	1
38	15006	Nut	1
39	15155	Lockwasher	2
40	15005	Nut	2

FOOTNOTES:

a Not Illustrated
b → S/N F006A06480

c S/N F006A06481 →
d S/N F006D01501 →

CLUTCH LINKAGE (FIGURE 5-6) OIL CLUTCH (→ S/N F006D03779)

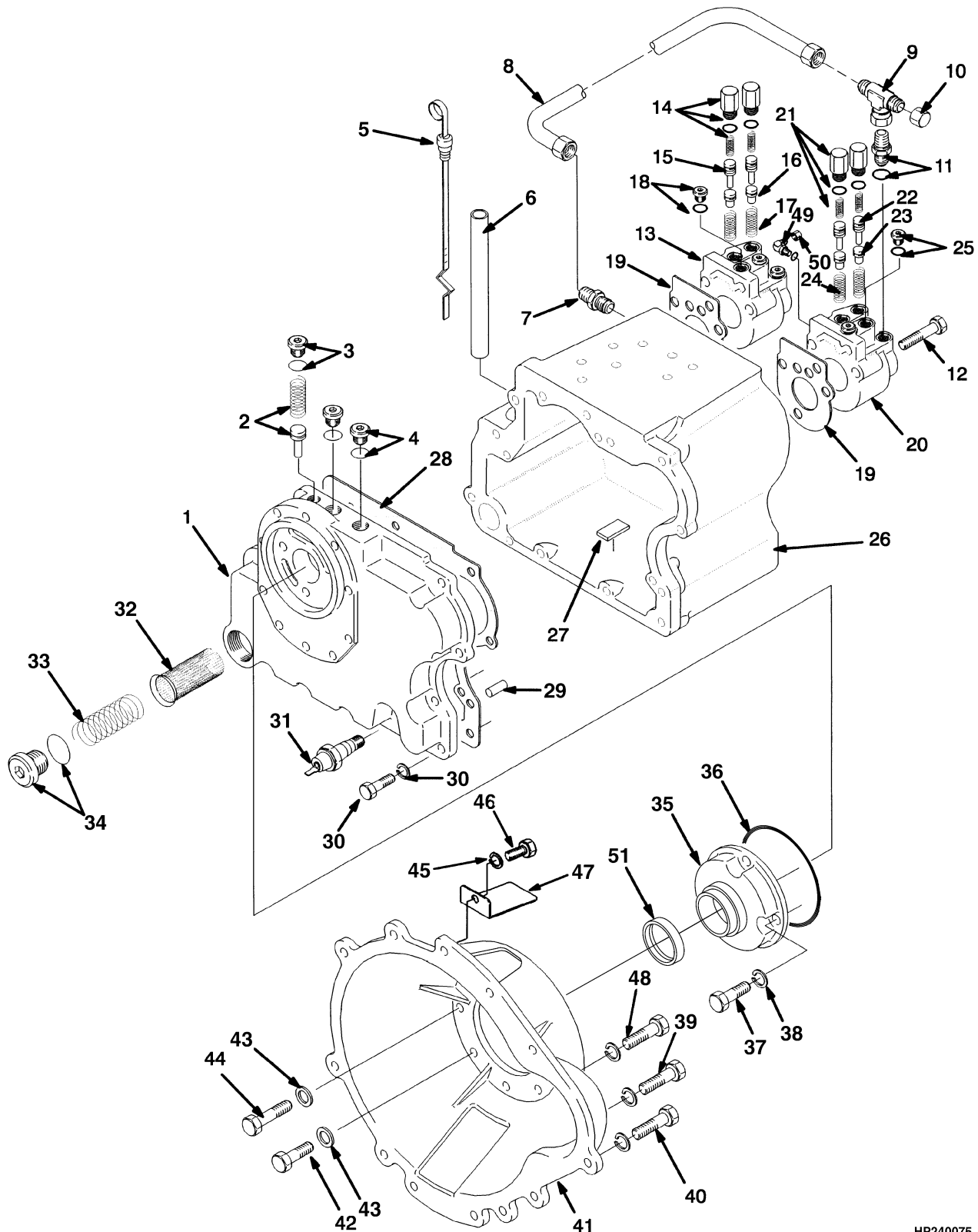


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CLUTCH LINKAGE
OIL CLUTCH (→ S/N F006D03779)

ITEM	PART NO.	DESCRIPTION	QTY
1	15028	Nut	3
2	15158	Washer	4
3	247070	Rod End (RH)	1
4	344268	Link	1
5	36850	Nut	1
6	247069	Rod End (LH)	1
7	247068	Pin	1
8	132690	Pad	1
9	357308	Pedal	1
10	247064	Ball Bearing	1
11	58908	Snap Ring	2
12	15015	Nut	1
12	18614	Capscrew	1
13	344266	Link	2
14	344267	Spring	2
15	377636	Eyebolt	2
16	15058	Nut	2

TRANSMISSION (FIGURE 5-7) POWERSHIFT



HP240075

**TRANSMISSION
POWERSHIFT**

ITEM	PART NO.	DESCRIPTION	QTY
	c 1322625	Transmission Assy (T40) (Monotrol Pedal)	1
	g 1386976	Transmission Assy (Monotrol Pedal)	1
	d 1322626	Transmission Assy (T40) (Forward/Reverse Lever)	1
	h 1386977	Transmission Assy (Two Speed) (Forward/Reverse Lever)	1
1	1313764	Cover	1
2	334524	Spool	1
2	346679	Spring (Relief Valve)	1
3	1589792		
	235691	Fitting	1
3	16484	O-Ring	1
4	1589792		
	235691	Fitting	2
4	16484	O-Ring	1
5	346682	Dipstick	1
6	346683	Dipstick Tube	1
7	17315	Fitting	1
8	374019	Tube Assy	1
9	17050	Fitting	1
10	16925	Fitting	1
11	131460	Fitting	1
11	16483	O-Ring	1
12	346691	Capscrew	6
13	346690	Manifold Assy	1
13	346684	Manifold	1
14	374039	Fitting	2
14	16484	O-Ring	2
14	346789	Spring	2
15	346801	Spool (Priority)	2
16	346800	Spool (Lube)	2
17	346688	Spring (Priority)	2
18	134436	Fitting	5
18	16482	O-Ring	1
19	346686	Gasket	2
20	346819	Manifold Assy (Forward)	1
20	346818	Manifold	1
21	374039	Fitting	2
21	16484	O-Ring	2
21	346789	Spring	2
22	346801	Spool (Priority)	2
23	346800	Spool (Lube)	2
24	346688	Spring (Priority)	2
25	134436	Fitting	3
25	16482	O-Ring	1
26	346625	Housing (Transmission)	1
27	334560	Magnet	1
27	264159	Adhesive	AR
28	346660	Gasket	1
29	186420	Dowel	2
30	b 136985	Capscrew	8
30	f 136985	Capscrew	7

TRANSMISSION
POWERSHIFT

ITEM	PART NO.	DESCRIPTION	QTY
30	b 388049		
	292682	Lockwasher	8
30	f 388049		
	292682	Lockwasher	16
31	1322627	Switch (Oil Temperature Warning)	1
32	346680	Screen	1
33	346681	Spring	1
34	188210	Fitting	1
34	16983	O-Ring	1
35	1320018	Charge Pump	1
35	1322333	Bushing	1
36	373950	O-Ring	1
37	292517	Capscrew	4
38	380524	Washer	4
39	b 15156	Lockwasher	1
39	b 18542	Capscrew	1
39	f 16828	Capscrew	1
40	15156	Lockwasher	1
40	16828	Capscrew	1
41	313022	Sealant	AR
41	344448	Converter Housing (Converter)	1
41	264159	Adhesive	AR
42	136985	Capscrew	6
43	388049		
	292682	Lockwasher	10
44	b 292524	Capscrew	4
44	f 292524	Capscrew	5
45	292681	Lockwasher	2
46	287851	Capscrew	2
47	340268	Plate	1
48	b 15156	Lockwasher	4
48	b 18547	Capscrew	4
48	f 1359458	Capscrew	4
49	222399	Fitting	1
50	16923	Nut	1
51	1498807	Seal (Double Lip)	1
	a 996400	Kit-Transmission Overhaul	1
	e 996476	Kit-Transmission Repair	1

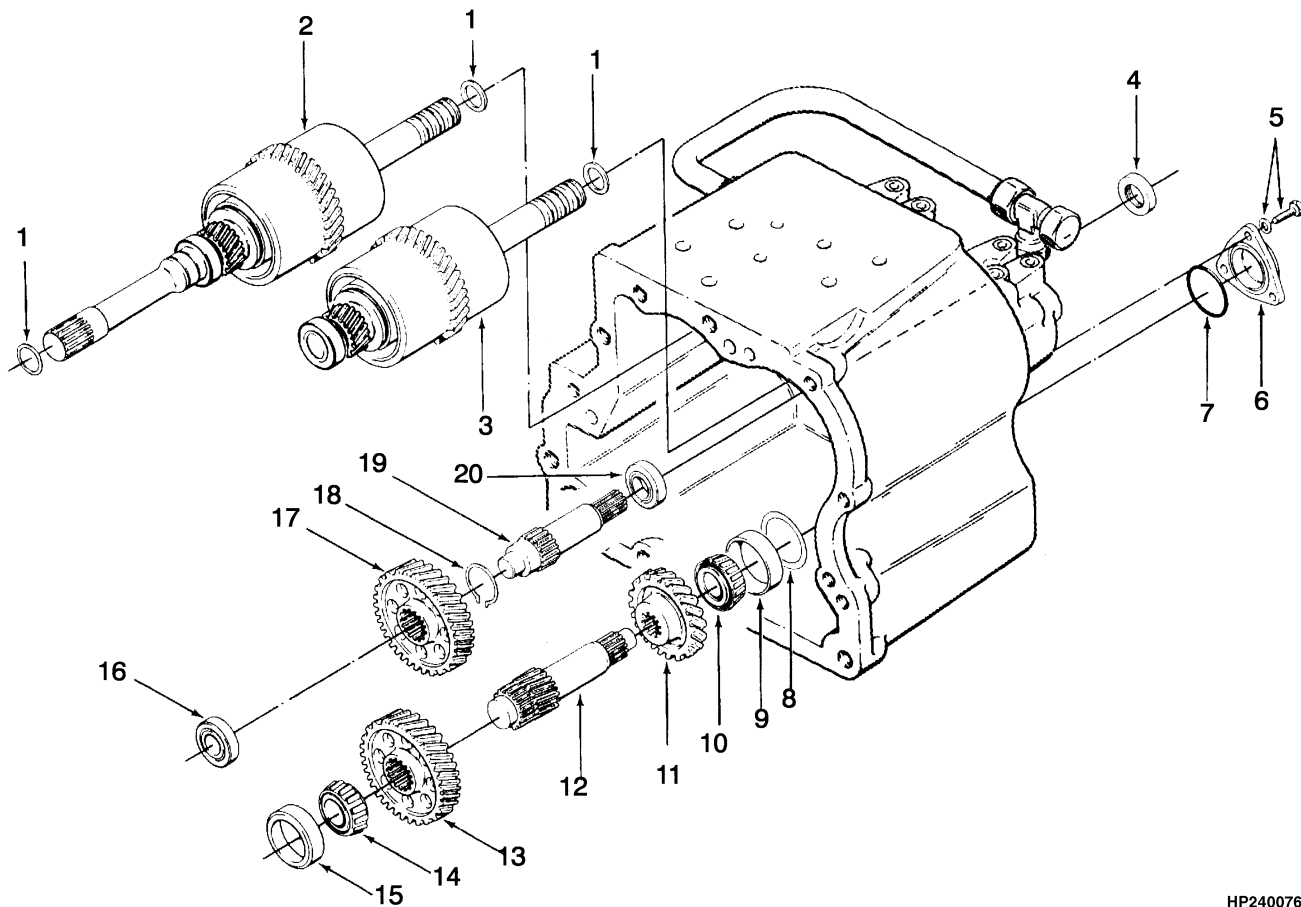
FOOTNOTES:

a → 5/2000**b** → S/N F006D06397**c** → S/N F006D06568Y**d** → S/N F006D06588Y**e** 5/2000 →**f** S/N F006D06398 →**g** S/N F006D06569Y →**h** S/N F006D06590Y →

NOTES

[illegible]

TRANSMISSION GEARS (FIGURE 5-8) POWERSHIFT (→ S/N F006D06568Y)



HP240076

TRANSMISSION GEARS
POWERSHIFT (→ S/N F006D06568Y)

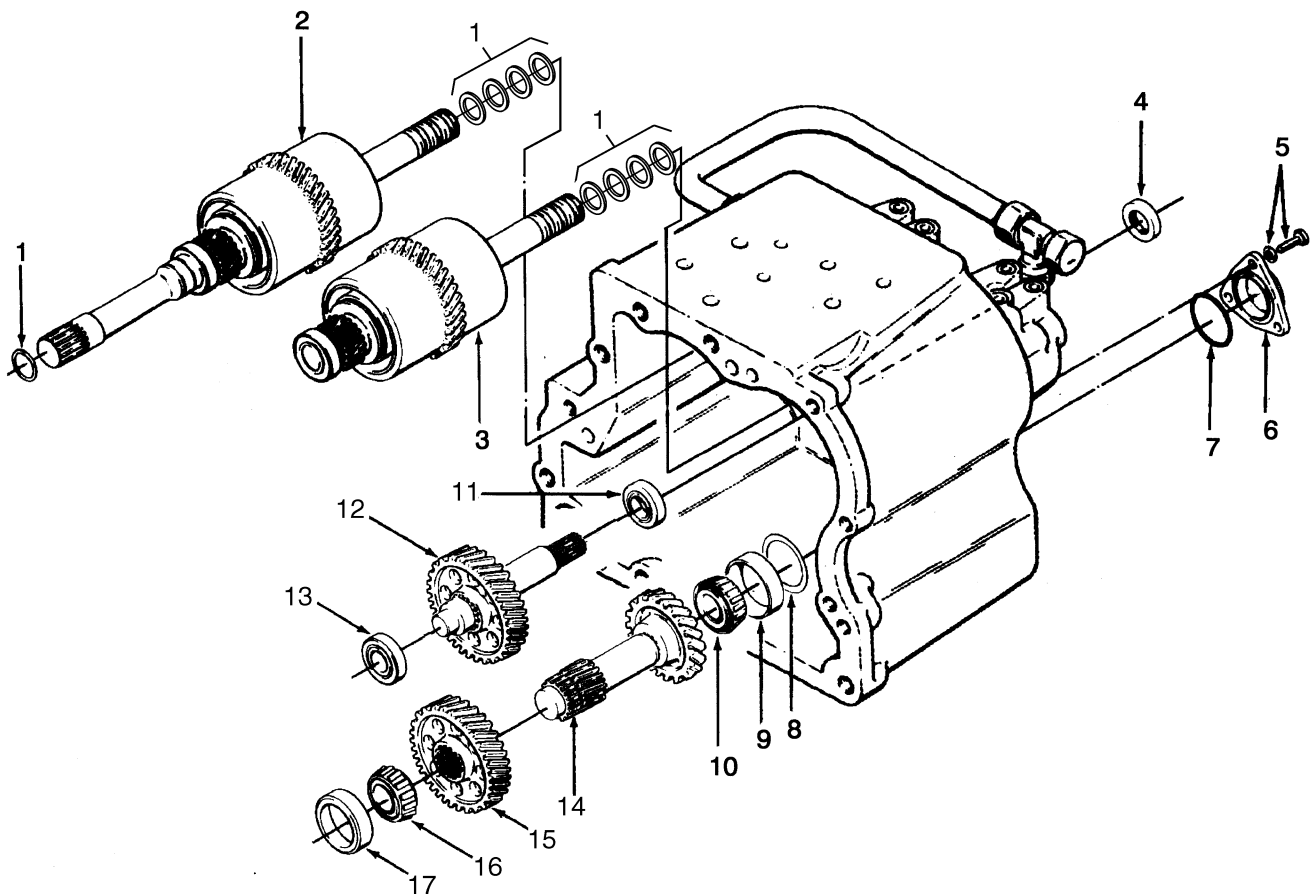
ITEM	PART NO.	DESCRIPTION	QTY
	a 1322625	Transmission Assy (T40)	1
	d 1386976	Transmission Assy	1
	a 1322626	Transmission Assy (T40)	1
	d 1386977	Transmission Assy (Two Speed)	1
1	346677	Ring	9
2	c 346666	Clutch Pack (Input) (Input) (☞Figure 5-10).....	1
2	f 1386979	Clutch Pack (Input) (☞Figure 5-11).....	1
3	c 346667	Clutch Pack (Directional) (Forward) (☞Figure 5-10).....	1
3	f 1386980	Clutch Pack (Counter, Forward, Short Shaft) (Forward) (☞Figure 5-12).....	1
4	79389	Seal (Output Shaft) (Output Shaft)	1
5	302335	Capscrew	3
5	320159	Washer	3
6	289642	Cover (Bearing)	1
7	39675	O-Ring	1
8	289760	Shim (0.020 in.)	AR
8	289761	Shim (0.007 in.)	AR
8	289762	Shim (0.015 in.)	AR
9	156194	Bearing Cup	1
10	156195	Bearing Cone	1
11	346606	Gear (High) (Service with 1386995 and 1386993)	1
11	1386995	Shaft (Counterbalance)	1
12	346608	Shaft (Counterbalance) (Service with 1386995 and 1386993)	1
12	1386995	Shaft (Counterbalance)	1
13	346602	Gear (Low) (Service with 1386995 and 1386993)	1
13	1386993	Gear (Low)	1
14	30085	Bearing Cone	1
15	30077	Bearing Cup	1
16	43309	Ball Bearing	1
17	346610	Gear (Output) (Service with 1386997)	1
18	346678	Snap Ring (Not used with replacement gears and shafts)	1
19	a 346622	Shaft (Output) (Service with 1386997)	1
19	d 1386997	Shaft (Output)	1
20	41210	Bearing	1
	b 996400	Kit-Transmission Overhaul	1
	e 996476	Kit-Transmission Repair	1

FOOTNOTES:

a → 10/2001
b → 5/2000
c → T096M-1702

d 10/2001 →
e 5/2000 →
f T096M-1703 →

TRANSMISSION GEARS (FIGURE 5-9) POWERSHIFT (S/N F006D06569Y →)



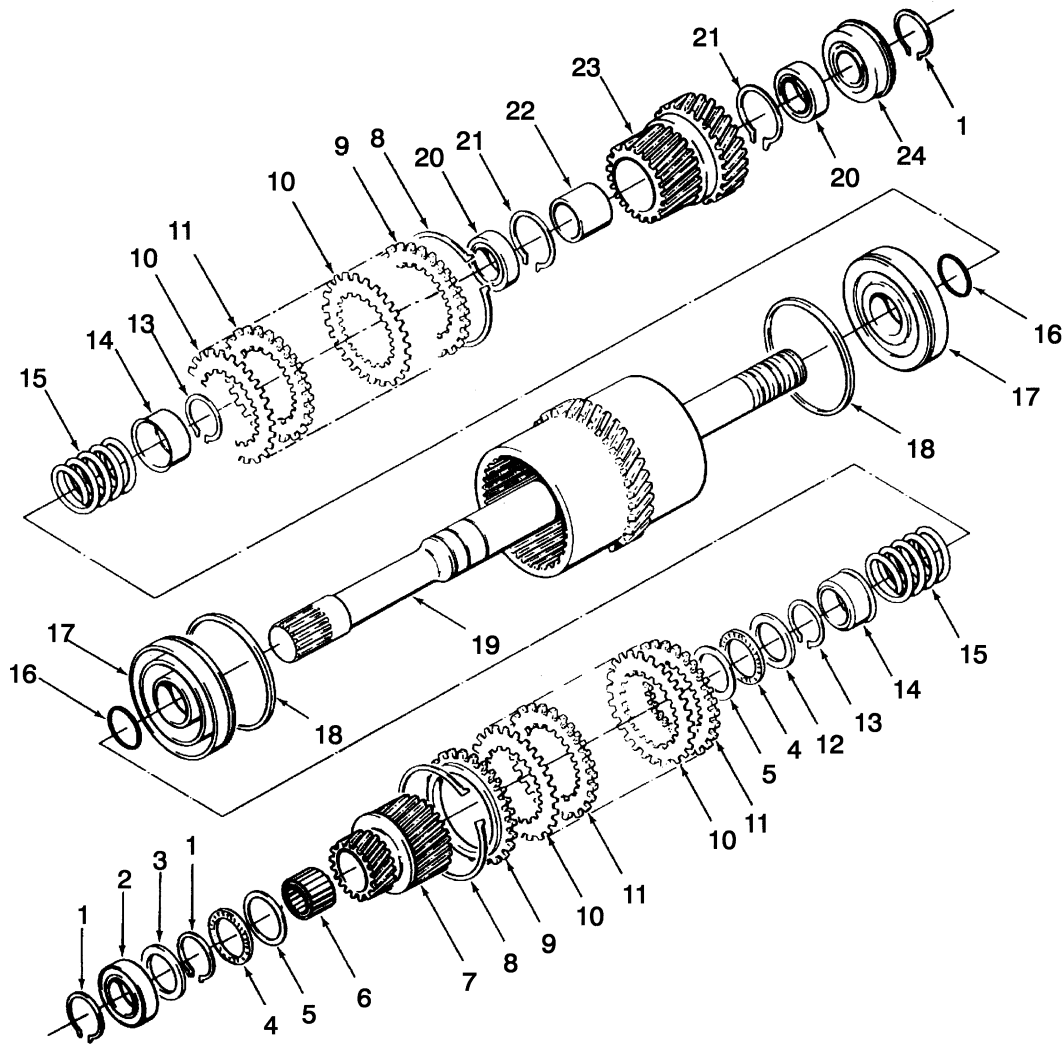
BP000029

TRANSMISSION GEARS

POWERSHIFT (S/N F006D06569Y →)

ITEM	PART NO.	DESCRIPTION	QTY
	1386976	Transmission Assy (Monotrol Pedal)	1
	1386977	Transmission Assy (Two Speed) (Forward/Reverse Lever)	1
1	346677	Ring	9
2	1386979	Clutch Pack (☞ Figure 5-11).....	1
3	1386980	Clutch Pack (Counter, Forward, Short Shaft) (☞ Figure 5-12).....	1
4	79389	Seal (Output Shaft) (Output Shaft)	1
5	302335	Capscrew	3
5	320159	Washer	3
6	289642	Cover	1
7	39675	O-Ring	1
8	289760	Shim (0.020 in.)	AR
8	289761	Shim (0.007 in.)	AR
8	289762	Shim (0.015 in.)	AR
9	156194	Bearing Cup	1
10	156195	Bearing Cone	1
11	41210	Bearing	1
12	1386997	Shaft (Output)	1
13	43309	Ball Bearing	1
14	1386995	Shaft (Counterbalance)	1
15	1386993	Gear (Low)	1
16	30085	Bearing Cone	1
19	30077	Bearing Cup	1

CLUTCH PACKS (FIGURE 5-10) POWERSHIFT (→ S/N F006D06568Y)



HP240062

CLUTCH PACKS
POWERSHIFT (→ S/N F006D06568Y)

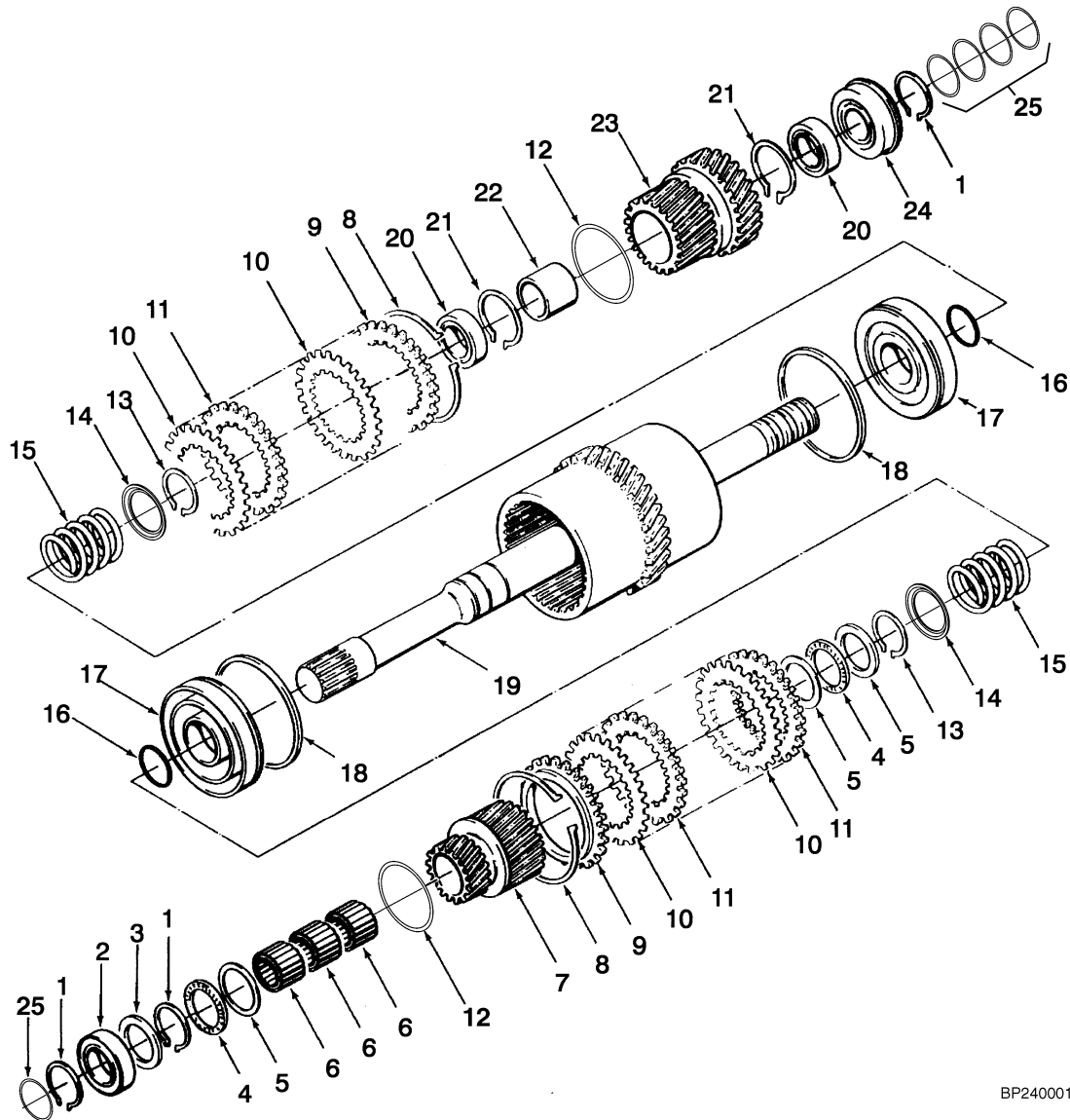
ITEM	PART NO.	DESCRIPTION	QTY
	d 346753	Transmission Assy (Monotrol)	1
	cg 1313758	Transmission Assy (Monotrol)	1
	f 1322625	Transmission Assy (T40) (Monotrol)	1
	d 346754	Transmission Assy (Forward/Reverse Lever)	1
	cg 1313759	Transmission Assy (Forward/Reverse Lever)	1
	f 1322626	Transmission Assy (T40) (Forward/Reverse Lever)	1
	a 346666	Clutch Pack (Input)	1
	a 1386979	Clutch Pack	1
	a 346667	Clutch Pack (Directional)	1
	a 1386980	Clutch Pack (Counter, Forward, Short Shaft)	1
1	346675	Snap Ring	3
2	41208	Bearing	1
3	346697	Thrust Washer	1
4	346731	Needle Bearing	2
5	346696	Thrust Washer	2
6	346730	Needle Bearing	3
7	346600	Pinion (Low)	1
8	334475	Snap Ring	2
9	334442	Pressure Plate (Pressure)	2
10	1469300	Plate (Friction)	18
11	334417	Separator Plate (Separator)	18
12	346698	Thrust Washer	1
13	334480	Snap Ring	2
14	346624	Cup	2
15	346671	Spring	2
16	346795	O-Ring	2
17	334439	Piston	2
18	334402	Seal	2
19	346669	Shaft (Input)	1
19	346670	Shaft (Directional)	1
20	124606	Ball Bearing	2
21	12894	Snap Ring	2
22	346615	Spacer	1
23	346604	Pinion (High)	1
24	124682	Ball Bearing	1
	b 996400	Kit-Transmission Overhaul	1
	e 996476	Kit-Transmission Repair	1

FOOTNOTES:

- a** Service both Clutch Packs together, (use 1386979, 1386980, 1386985, 1386993)
- b** → 5/2000
- c** → S/N B024D01751 INC. 1866
- d** → S/N T40M02948

- e** 5/2000 →
- f** S/N B024D01752 →
- g** T40M-2949 →

CLUTCH PACK (FIGURE 5-11) POWERSHIFT — INPUT (S/N F006D06569Y →)



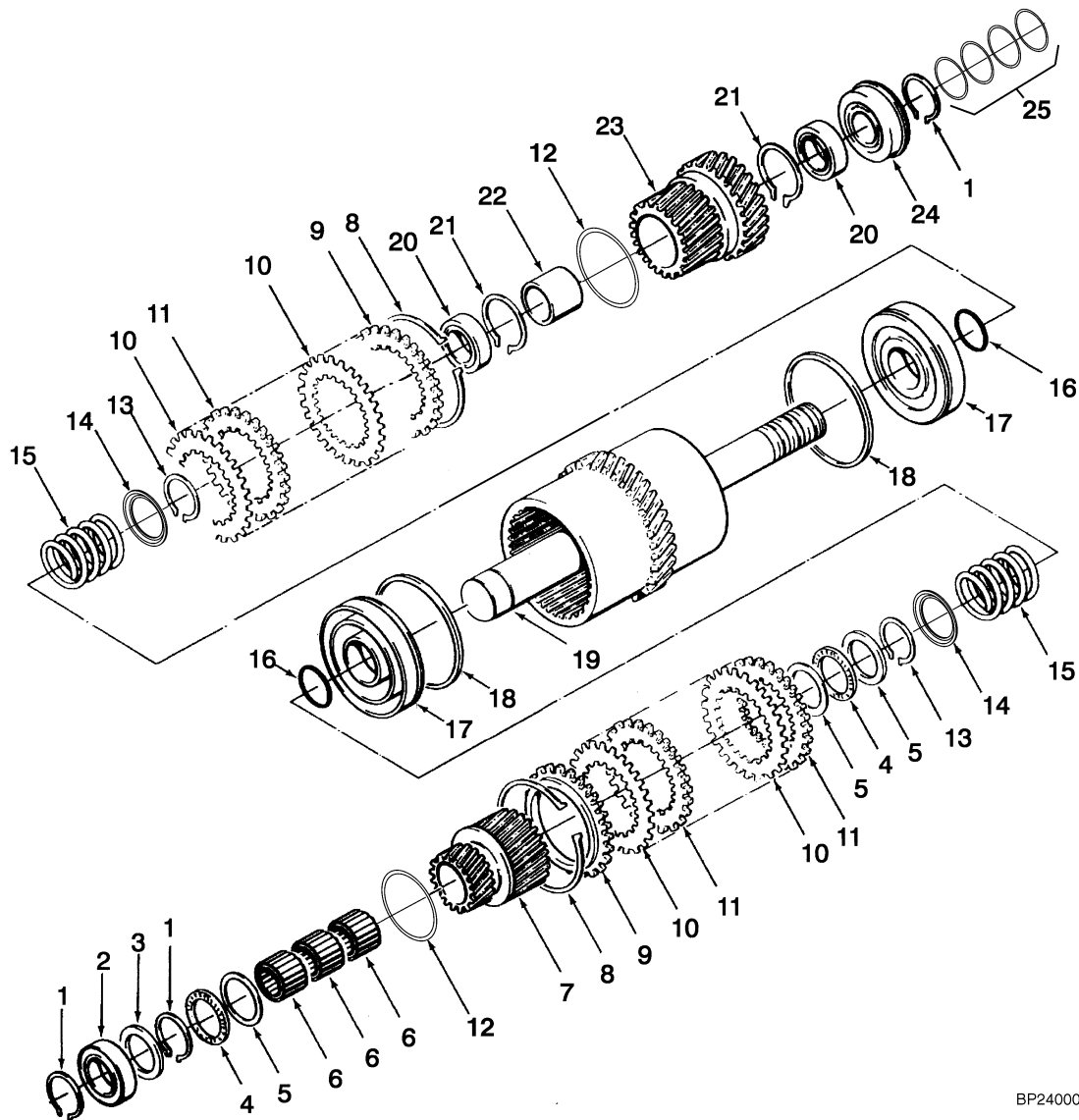
BP240001

CLUTCH PACK

POWERSHIFT – INPUT (S/N F006D06569Y →)

ITEM	PART NO.	DESCRIPTION	QTY
	1386976	Transmission Assy (Monotrol)	1
	1386977	Transmission Assy (Two Speed) (Forward/Reverse Lever)	1
	1386979	Clutch Pack	1
1	346675	Snap Ring	3
2	41208	Bearing	1
3	1396053	Thrust Washer	1
4	346731	Needle Bearing	2
5	346696	Thrust Washer	3
6	346730	Needle Bearing	3
7	1386989	Gear (Low Output)	1
8	334475	Snap Ring	2
9	1394881	Pressure Plate (0.248-0.252 in.)	2
10	1469301	Friction Disk (Friction)	18
11	1387235	Separator Plate (Separator)	18
12	1386958	O-Ring	2
13	1394912	Snap Ring	2
14	1394893	Guide	2
15	1394882	Spring	2
16	1394879	O-Ring	2
17	1394885	Piston	2
18	334402	Seal	2
19	1386982	Shaft (Input)	1
20	124606	Ball Bearing	2
21	12894	Snap Ring	2
22	1386916	Spacer	1
23	1386991	Gear (High Output)	1
24	124682	Ball Bearing	1
25	346677	Ring	5

CLUTCH PACK (FIGURE 5-12) POWERSHIFT — DIRECTIONAL (S/N F006D06569Y →)



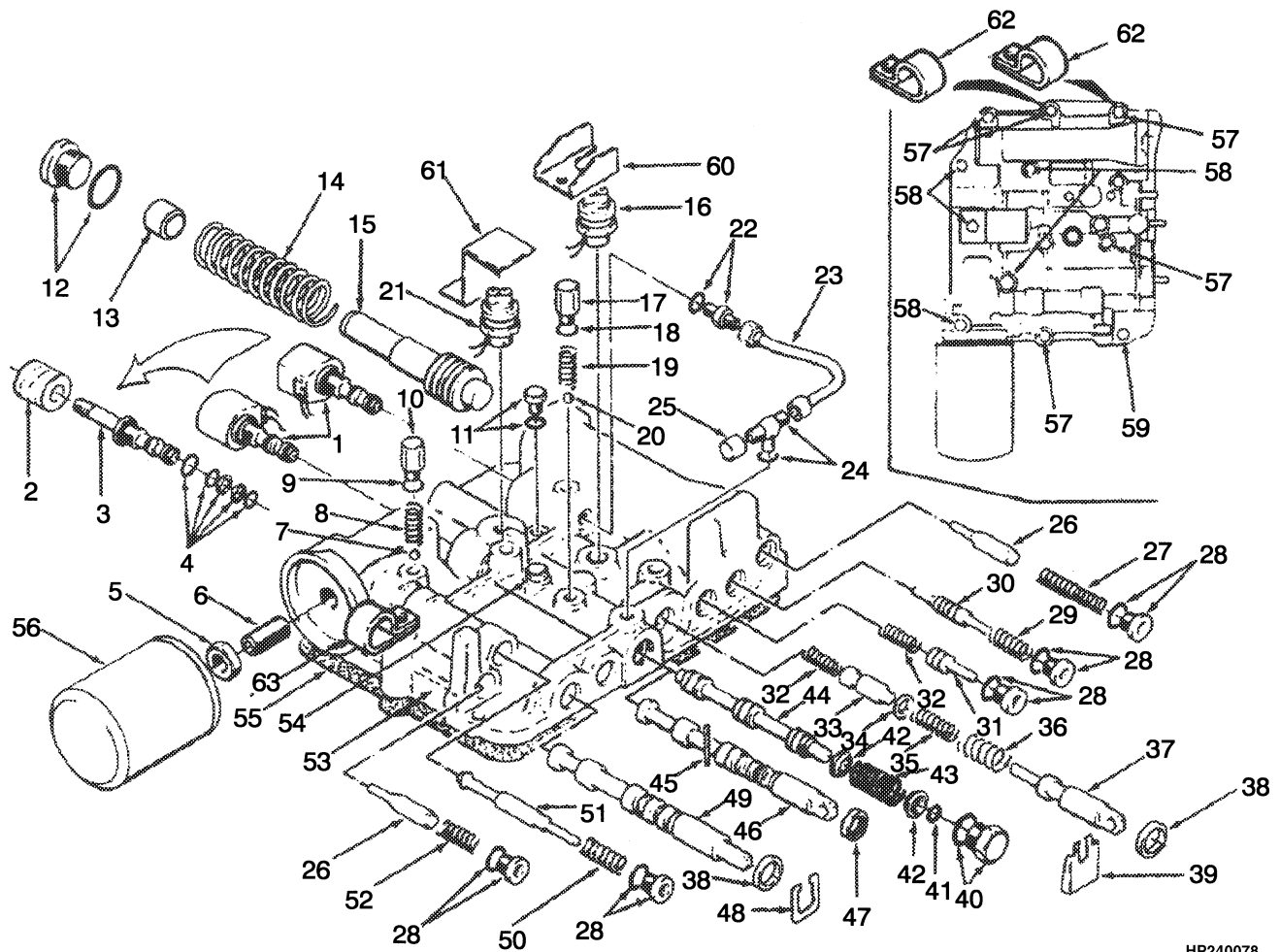
BP240002

CLUTCH PACK

POWERSHIFT – DIRECTIONAL (S/N F006D06569Y →)

ITEM	PART NO.	DESCRIPTION	QTY
	1386976	Transmission Assy (Monotrol)	1
	1386977	Transmission Assy (Two Speed) (Forward/Reverse Lever)	1
	1386980	Clutch Pack (Counter, Forward, Short Shaft)	1
1	346675	Snap Ring	3
2	41208	Bearing	1
3	1396053	Thrust Washer	1
4	346731	Needle Bearing	2
5	346696	Thrust Washer	3
6	346730	Needle Bearing	3
7	1386989	Gear (Low Output)	1
8	334475	Snap Ring	2
9	1394881	Pressure Plate (0.248-0.252 in.)	2
10	1469301	Friction Disk (Friction)	18
11	1387235	Separator Plate (Separator)	18
12	1386958	O-Ring	2
13	1394912	Snap Ring	2
14	1394893	Guide	2
15	1394882	Spring	2
16	1394879	O-Ring	2
17	1394885	Piston	2
18	334402	Seal	2
19	1386983	Shaft (Directional)	1
20	124606	Ball Bearing	2
21	12894	Snap Ring	2
22	1386916	Spacer	1
23	1386991	Gear (High Output)	1
24	124682	Ball Bearing	1
25	346677	Ring	4

TRANSMISSION CONTROL VALVE (FIGURE 5-13) POWERSHIFT



HP240078

**TRANSMISSION CONTROL VALVE
POWERSHIFT****KEY:****A: Monotrol Pedal****B: Forward/Reverse Lever**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a 1313760	Valve	1	..
	a 1313761	Valve	..	1
	de 1322633	Valve	1	..
	de 1322634	Valve	..	1
1	c 380497	Solenoid Valve	2	..
1	g 1390609	Solenoid Valve	2	..
2	a 1300498	Coil	1	..
2	de 1452595	Coil	1	..
3	a 1312331	Cartridge (With Vitron)	1	..
3	de 1673634	Actuator	1	..
4	1300486	Kit-Seal	1	..
4	1393160	Kit-Seal	1	..
5	15032	Nut	1	1
6	181766	Fitting	1	1
7	55280	Ball	1	1
8	346652	Spring	1	1
9	16483	O-Ring	1	1
10	346651	Plug	1	1
11	14591	Plug	1	..
11	16481	O-Ring	1	..
12	16982	O-Ring	1	1
12	200659	Fitting	1	1
13	346848	Spacer	1	1
14	346636	Spring (Outer)	1	1
15	346788	Spool	1	1
16	de 1322668	Switch	1	..
16	a 176409	Switch	1	..
17	334515	Plug	..	1
18	16482	O-Ring	..	1
19	334513	Spring	..	1
20	55280	Ball	..	1
21	de 1322668	Switch	..	1
21	a 176409	Switch	..	1
22	16481	O-Ring	1	..
22	16538	Connector	1	..
23	346654	Tube Assy	1	..
24	16481	O-Ring	1	..
24	16574	Fitting	1	..
25	16923	Nut	1	..
26	334524	Spool	2	2
27	1313774	Spring	1	1
28	16484	O-Ring	1	1
28	1589792			
	235691	Fitting	5	5
29	346805	Spring	1	1

TRANSMISSION CONTROL VALVE
POWERSHIFT

KEY:

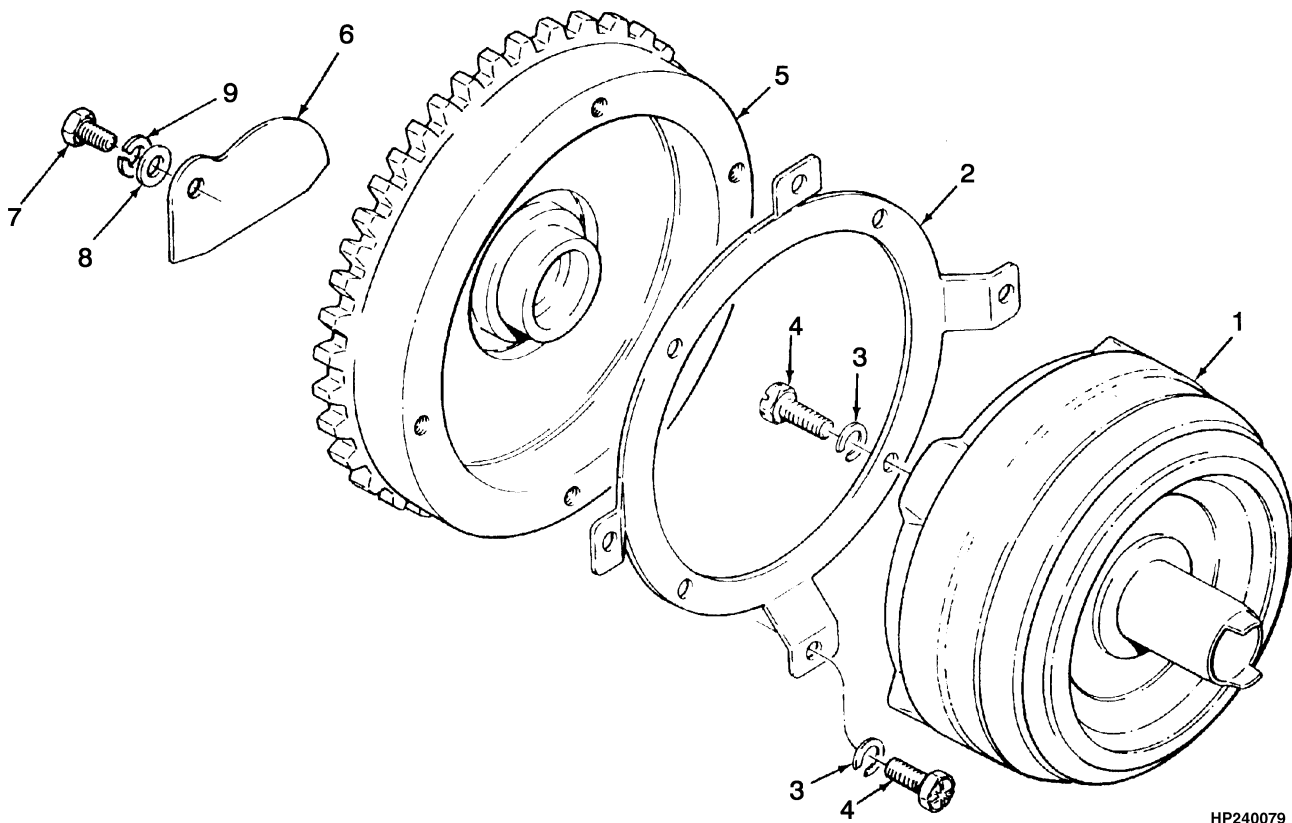
A: Monotrol Pedal

B: Forward/Reverse Lever

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
30	346634	Spool (Trimmer)	1	1
31	334542	Spool (Dump)	1	1
32	334543	Spring	2	2
33	346813	Spool	1	1
34	296418	Washer	1	1
35	346643	Spring (Inching)	1	1
36	334531	Spring	1	1
37	346734	Plunger (Inching)	1	1
38	334500	Seal	2	2
39	346647	Stop (Inching)	1	1
40	16486	O-Ring	1	..
40	346653	Plug (Forward/Reverse Lever)	1	..
41	346650	Snap Ring	1	..
42	346648	Cap (Spring)	2	..
43	346645	Spring (Center)	1	..
44	346644	Spool (Forward/Reverse Lever)	1	..
45	221989	Roll Pin	..	1
46	f 1337816	Spool (Forward/Reverse)	..	1
46	b 359222	Spool (Forward/Reverse)	..	1
47	334500	Seal	..	1
48	346649	Stop (High and Low)	1	1
49	346646	Spool (High and Low)	1	1
50	346770	Spring (Clutch Pack)	1	1
51	346768	Spool (Clutch Pack)	1	1
52	346640	Spring	1	1
53		Valve Body	1	1
54	14591	Plug	1	1
54	16481	O-Ring	1	1
55	1329630	Gasket	1	1
56	1328691	Transmission Filter	1	1
57	136704	Capscrew	6	6
57	320157	Washer	6	6
58	320157	Washer	3	3
58	346656	Capscrew	3	3
59	292508	Capscrew	3	3
59	320157	Washer	3	3
60	346662	Bracket	1	..
61	346787	Bracket	..	1
62	de 325897	Clamp	2	2
63	de 186480	Clamp	1	..

FOOTNOTES:

- a** → S/N F006A03790
- b** → T40M-7283
- c** → T40M02228J
- d** S/N F006A03791 →
- e** S/N F006D01501 →
- f** T40M-7284 →
- g** T40M02229J →

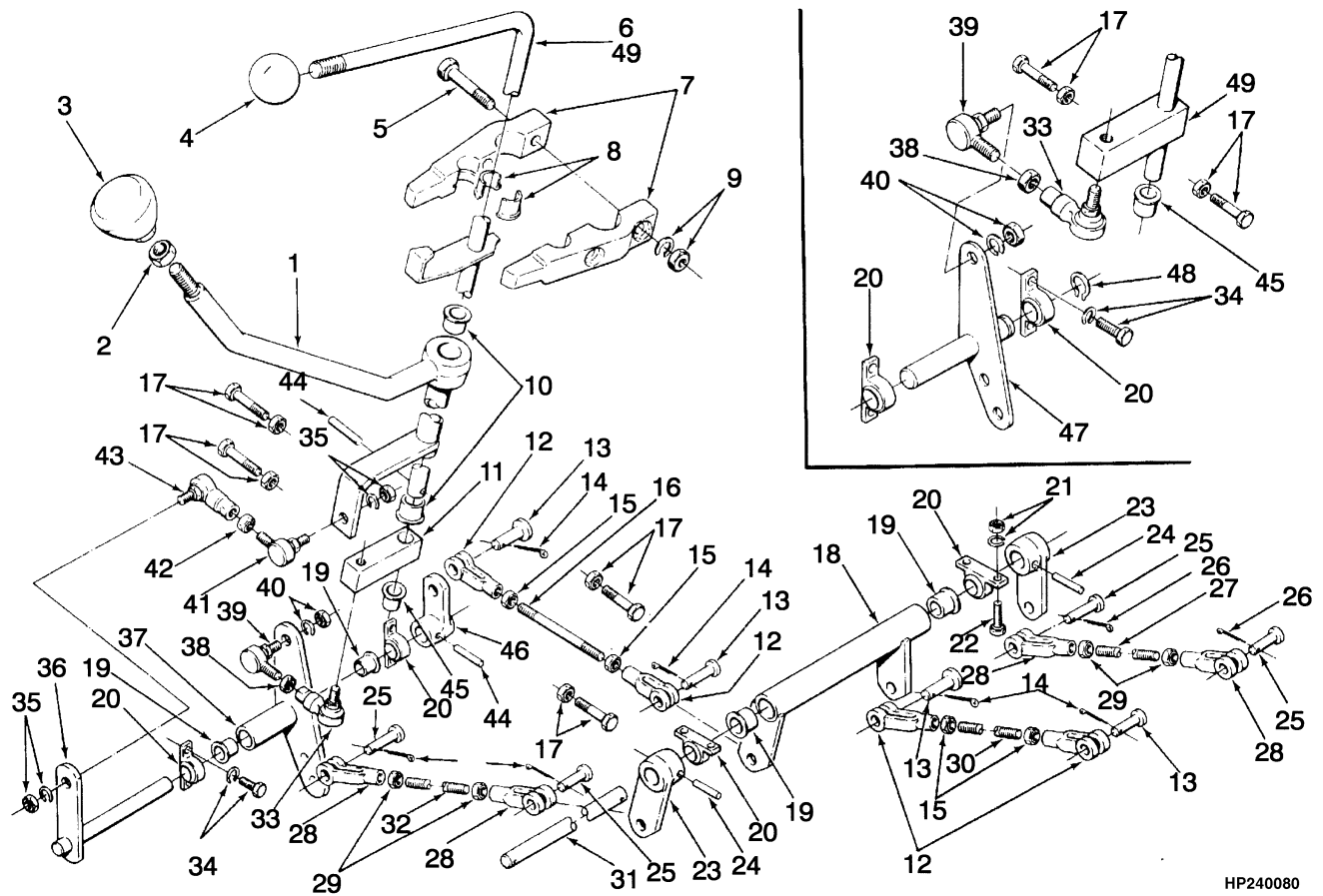
TORQUE CONVERTER (FIGURE 5-14)
POWERSHIFT

**TORQUE CONVERTER
POWERSHIFT****KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a 344332	Torque Converter	..	1
1	a 344343	Torque Converter	1	..
1	cd 344343	Torque Converter	1	1
1	373449	Seal (Not Illustrated)	1	1
2	304464	Mounting Plate	1	1
3	261379	Washer	8	8
4	15942	Bolt	8	8
5	e 1454600	Flywheel (☞ Figure 2-3).....	1	1
5	b 344357	Flywheel (☞ Figure 2-3).....	1	1
5	350152	Flywheel (☞ Figure 2-3).....	1	1
6	388513	Plate	..	1
7	287851	Capscrew	..	1
8	320158	Washer	..	1
9	292681	Lockwasher	..	1

FOOTNOTES:**a** → S/N F006A03039**b** → S/N F006D04442**c** S/N F006A03040 →**d** S/N F006D01501 →**e** S/N F006D04443 →

CONTROL LINKAGE (FIGURE 5-15) POWERSHIFT (→ S/N F006A03790)



CONTROL LINKAGE
POWERSHIFT (→ S/N F006A03790)**KEY:****A: Monotrol Pedal****B: Forward/Reverse Lever**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	357238	Lever	..	1
2	15026	Nut	..	1
3	154878	Knob	..	1
4	308993	Knob	1	1
5	296012	Capscrew	1	1
6	357237	Lever (High and Low)	..	1
7	374024	Bracket	1	1
8	374005	Bushing	2	2
9	239503	Nut	1	1
9	293780	Lockwasher	1	1
10	357242	Bushing	..	2
11	350081	Plate	..	1
12	138	Rod End	..	4
13	139	Pin	..	4
14	15211	Cotter Pin	..	4
15	15025	Nut	..	4
16	43370	Link	..	1
17	136687	Nut	2	4
17	287816	Capscrew	2	4
18	357249	Crank	..	1
19	368231	Bushing	..	4
20	313859	Bearing	4	4
21	136687	Nut	4	4
21	292680	Washer	4	4
22	292501	Capscrew	4	4
23	357235	Crank	2	2
24	71153	Roll Pin	2	2
25	139	Pin	4	4
26	15211	Cotter Pin	4	4
27	311540	Link	1	1
28	138	Rod End	4	4
29	15025	Nut	4	4
30	311540	Link	..	1
31	350088	Shaft	1	1
32	43370	Link	1	1
33	357263	Ball Joint	1	1
34	287817	Capscrew	4	4
34	292680	Washer	4	4
35	15004	Nut	..	2
35	15154	Lockwasher	..	2
36	357243	Crank	..	1
37	357246	Crank	..	1
38	15004	Nut	1	1
39	215009	Rod End	1	1
40	15004	Nut	1	1

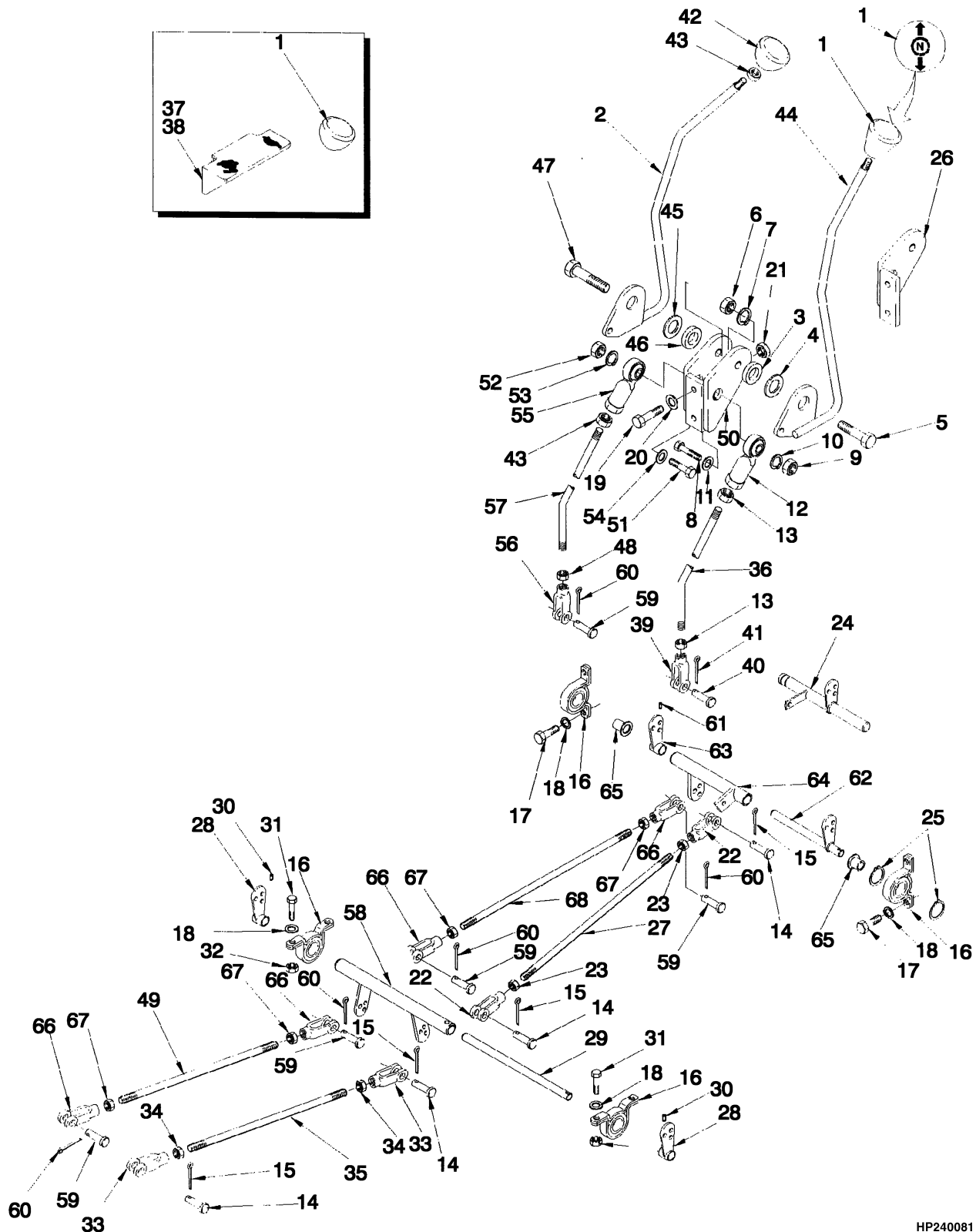
CONTROL LINKAGE
POWERSHIFT (→ S/N F006A03790)**KEY:****A: Monotrol Pedal****B: Forward/Reverse Lever**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
40	15154	Lockwasher	1	1
41	215009	Rod End	..	1
42	15004	Nut	..	1
43	357263	Ball Joint	..	1
44	71153	Roll Pin	..	2
45	350082	Bushing	1	1
46	357235	Crank	..	1
47	350083	Crank	1	..
48	58951	Snap Ring	1	..
49	350080	Lever	1	..

NOTES

[illegible]

CONTROL LINKAGE (FIGURE 5-16) POWERSHIFT (S/N F006A03791 →)



HP240081

CONTROL LINKAGE
POWERSHIFT (S/N F006A03791 →)**KEY:****A: High and Low****B: Forward/Reverse Lever**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	bc 154878	Knob (Screw-on)	1	1
1	15026	Nut	3	3
2	a 1303155	Lever	1	1
2	bc 1318417	Lever (RH, Fast and Slow)	1	1
3	1303158	Bushing	1	1
4	1300139	Washer	1	1
5	292515	Capscrew	1	1
6	316826	Nut	1	1
7	388049			
	292682	Lockwasher	1	1
8	16316	Capscrew	1	1
9	15056	Nut	1	1
10	15156	Lockwasher	1	1
11	15134	Washer	1	1
12	161652	Rod End	1	1
13	15026	Nut	2	2
14	139	Pin	4	4
15	15211	Cotter Pin	4	4
16	313859	Bearing	4	4
17	287817	Capscrew	4	4
18	292680	Washer	8	8
19	176640	Bolt	2	2
20	292681	Lockwasher	2	2
21	239503	Nut	2	2
22	138	Rod End	2	2
23	15025	Nut	2	2
24	1310988	Crank	1	1
25	58951	Snap Ring	2	2
26	1303154	Bracket	1	..
27	43370	Link	1	1
28	357235	Crank	2	2
29	1310985	Shaft	1	1
30	71153	Roll Pin	2	2
31	292501	Capscrew	4	4
32	136687	Nut	4	4
33	138	Rod End	2	2
34	15025	Nut	2	2
35	311540	Link	1	1
36	1310996	Rod	1	1
37	a 1304309	Indicator	1	1
38	a 1300215	Adhesive	..	..
39	141	Rod End	1	1
40	142	Pin	1	1
41	15211	Cotter Pin	1	1
42	284077	Knob	..	1

CONTROL LINKAGE POWERSHIFT (S/N F006A03791 →)

KEY:

A: High and Low

B: Forward/Reverse Lever

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
43	15026	Nut	..	3
44	1312735	Lever (LH, Forward and Reverse) (Forward/Reverse)	..	1
45	1300139	Washer	..	1
46	1303158	Bushing	..	1
47	292515	Capscrew	..	1
48	316826	Nut	..	1
49	311540	Link	..	1
50	1303150	Bracket Wldmt	..	1
51	16316	Capscrew	..	1
52	15056	Nut	..	1
53	15156	Lockwasher	..	1
54	15134	Washer	..	1
55	161652	Rod End	..	1
56	228122	Rod End	..	1
57	1310996	Rod	..	1
58	357249	Crank	..	1
59	139	Pin	..	5
60	15211	Cotter Pin	..	5
61	71153	Roll Pin	..	1
62	1310975	Crank	..	1
63	357235	Crank	..	1
64	1310978	Crank	..	1
65	368231	Bushing	..	4
66	138	Rod End	..	4
67	15025	Nut	..	4
68	43370	Link	..	1

FOOTNOTES:

a → S/N F006A06480

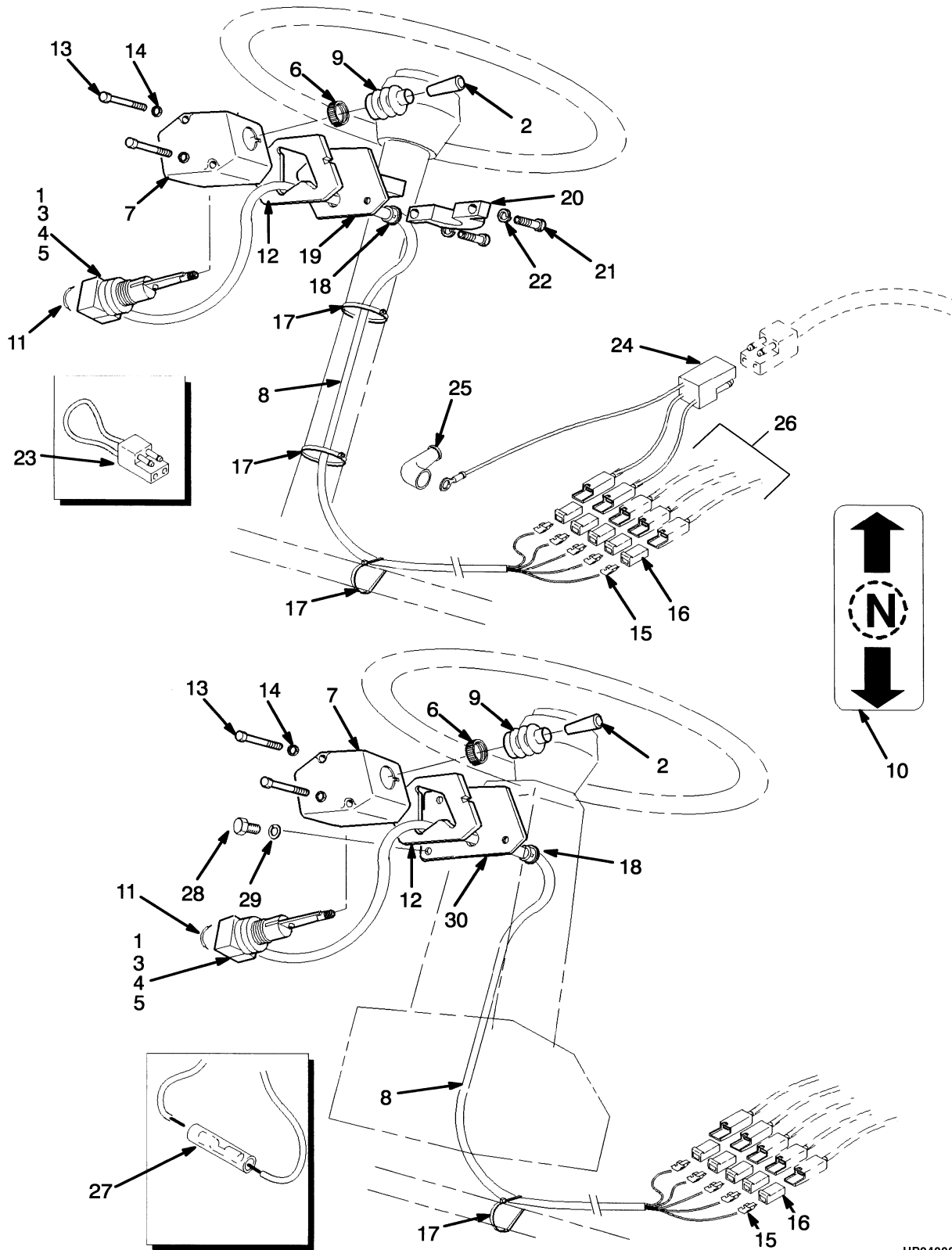
c S/N F006D01501 →

b S/N F006A06481 →

NOTES

[illegible]

DIRECTION SWITCH (FIGURE 5-17)



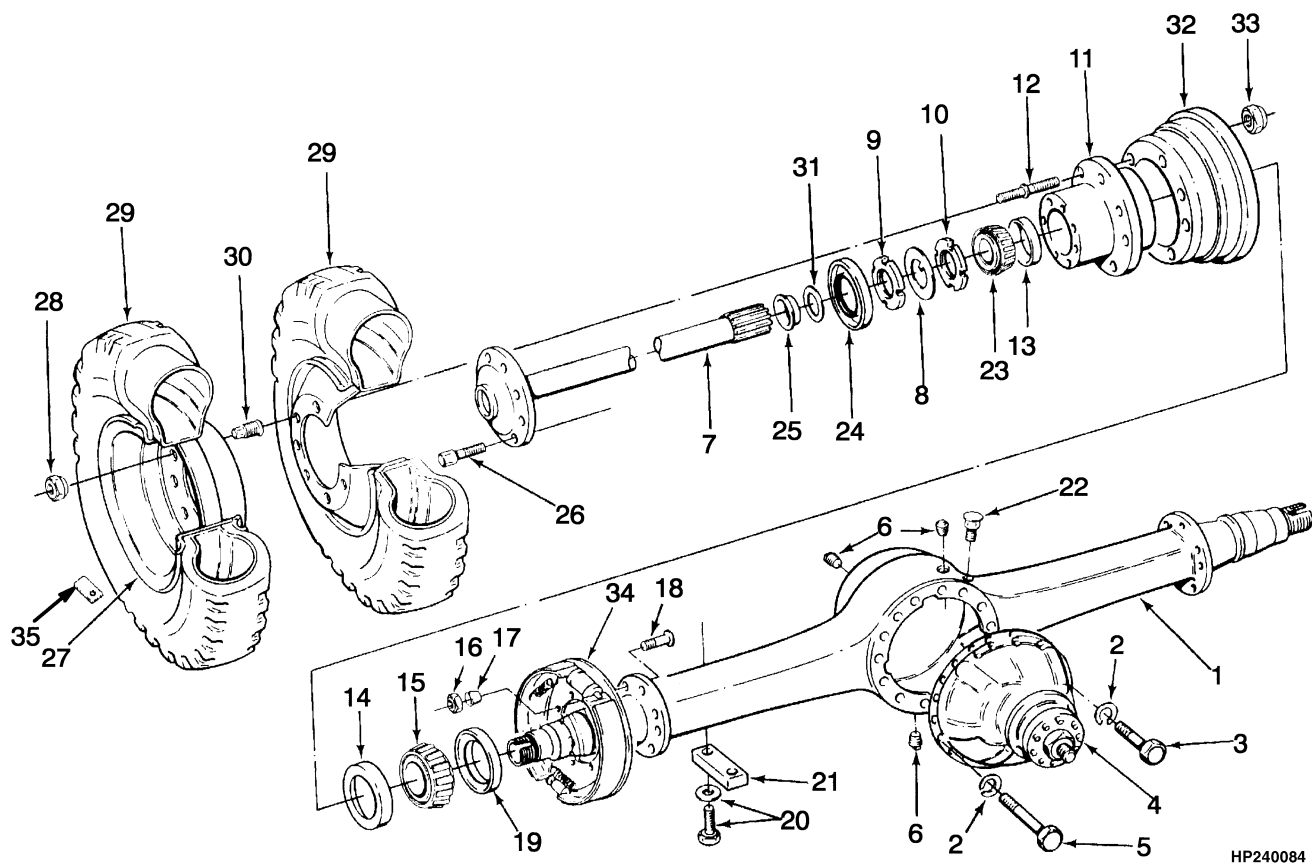
HP240082

DIRECTION SWITCH**KEY:****A: Steering Column****B: Steering Pod**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1308334	Lever (Forward/Reverse)	1	1
2	289143	Handle	1	1
3	1324744	Switch	1	1
4	1335051	Contact	2	2
5	1335053	Gasket	1	1
6	1335054	Nut	1	1
7	1308325	Housing	1	1
8	1308332	Wire Harness	1	1
9	289166	Boot	1	1
10	309684	Label (Forward/Reverse)	1	1
11	1324737	Wire	1	1
12	1308326	Plate	1	1
13	337239	Capscrew	2	2
14	292680	Washer	2	2
15	134812	Terminal	5	5
16	181046	Connector Body	5	5
17	2004005	Strap Clamp	AR	AR
18	286901	Bushing	1	1
19	1308327	Bracket	1	..
20	1308333	Cap	1	..
21	296162	Capscrew	2	..
22	292680	Washer	2	..
23	1308343	Wire Harness	1	..
24	1308341	Wire Harness	1	..
25	204223	Boot	1	1
26	1324664	Wire Harness	..	1
27	1308349	Splice	..	1
28	296159	Capscrew	..	2
29	292680	Washer	..	2
30	1308851	Plate	..	1

DRIVE AXLE (FIGURE 5-18)

PARTS SERVICE GRAM	
ITEM	GRAM
21	CF-18



HP240084

DRIVE AXLE

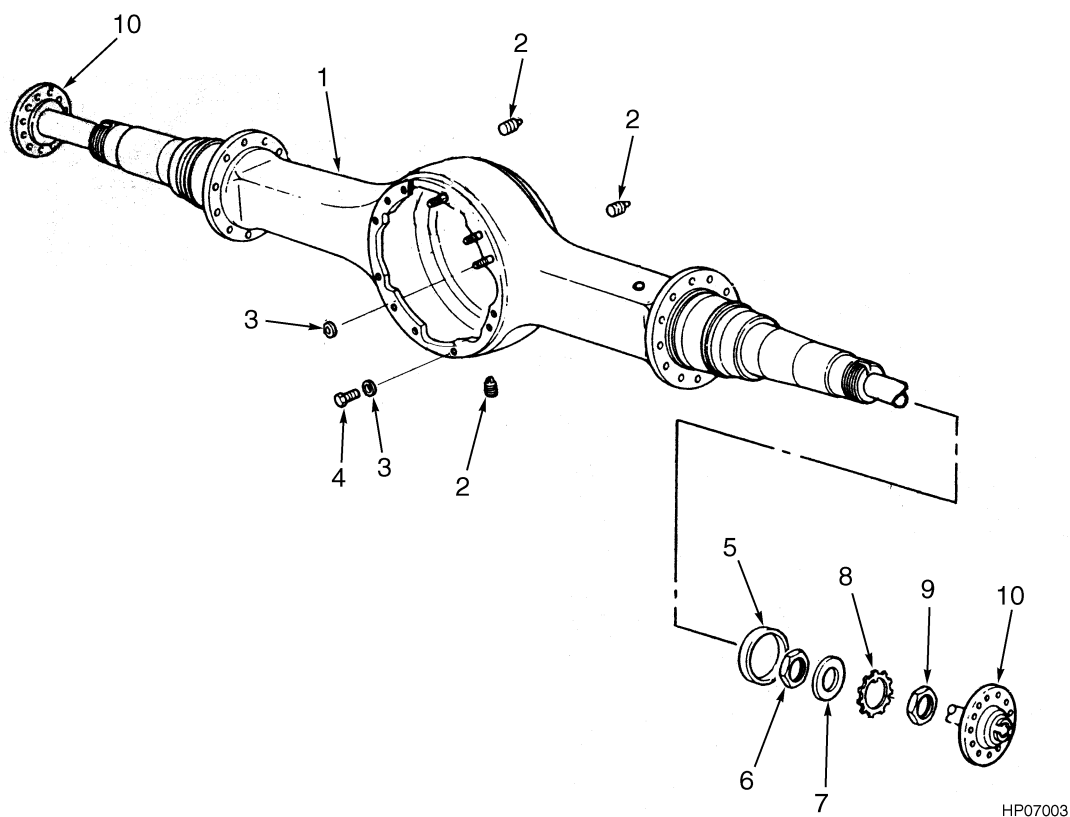
ITEM	PART NO.	DESCRIPTION	QTY
1	a 350149	Drive Axle	1
1	djh 1309374	Drive Axle (Oil Clutch)	1
1	a 350148	Drive Axle (Powershift)	1
1	gj 1309373	Drive Axle (Powershift)	1
1	i 1479160	Drive Axle (Powershift)	1
1	e 1319387	Drive Axle Housing	1
1	i 1497902	Drive Axle Housing (☞ Figure 5-19).....	1
2	88587	Washer (Oil Clutch)	14
3	221565	Capscrew (Oil Clutch)	10
4	e 287700	Differential Carrier (☞ Figure 5-20).....	1
4	i 1497909	Differential (☞ Figure 5-24).....	1
5	e 221573	Capscrew	4
6	e 15316	Fitting	3
7	e 287737	Axle Shaft	2
7	313022	Sealant	AR
8	116067	Lockwasher	2
9	293323	Nut	2
10	293322	Nut	2
11	372011	Hub	2
12	26400	Wheel Stud	6
13	230324	Bearing Cup	1
14	30190	Bearing Cup	1
15	230378	Bearing Cone	2
16	278326	Nut	14
17	153778	Thimble	14
18	e 374013	Capscrew	14
18	i 1491571	Capscrew	14
19	44538	Seal	2
20	a 221699	Capscrew	4
20	j 895258	Capscrew	4
20	f 163753	Capscrew	4
20	h 221702	Capscrew	4
20	b 15166	Lockwasher	4
20	kh 221780	Washer	4
21	b 373098	Plate	2
21	h 1335204	Plate	2
21	kh 1361489	Retainer	2
22	1613651	Breather	1
23	230325	Bearing Cone	2
24	258120	Seal	2
25	265659	Wear Sleeve	2
26	213670	Capscrew	32
27		Wheel	4
28	11286	Wheel Nut	12
29		Tire	4
30	11287	Wheel Nut	12
31	1579260	Gasket	2
32	I 1392223	Brake Drum	2
32	c 340811	Brake Drum	2
33	248320	Wheel Nut	12
34		Brake (☞ Figure 7-5).....	2

DRIVE AXLE

ITEM	PART NO.	DESCRIPTION	QTY
35	336555	Plate (Valve Stem)	2

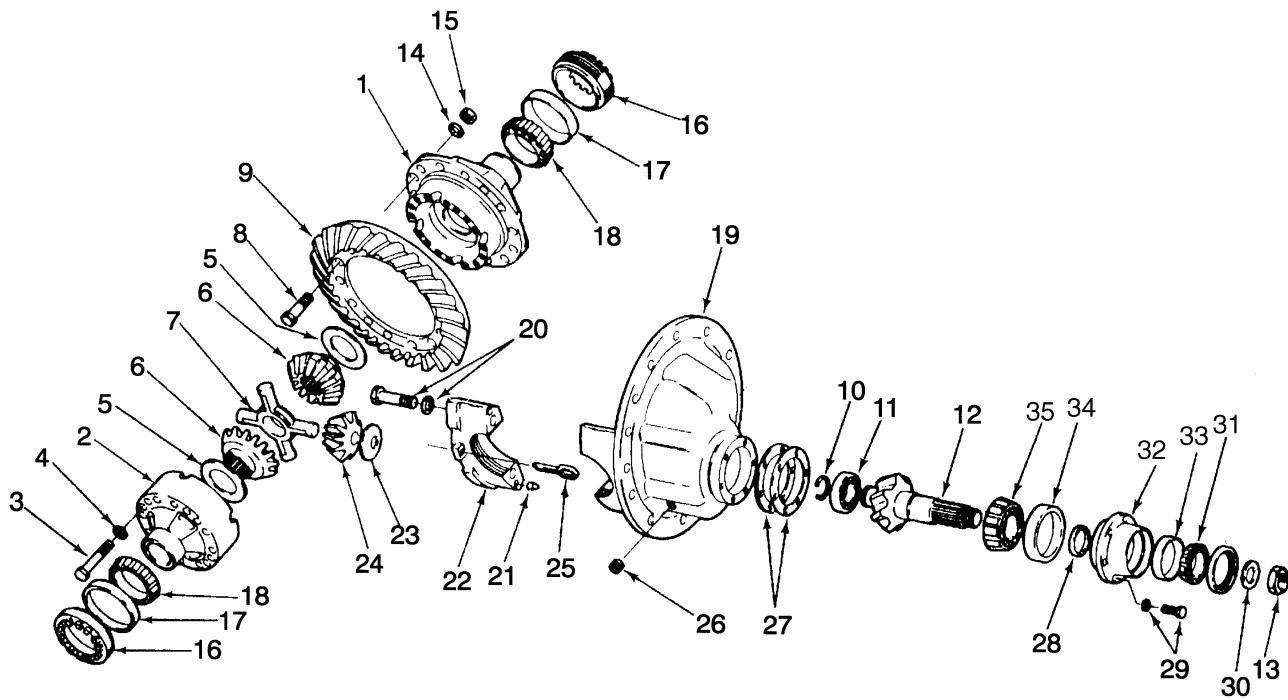
FOOTNOTES:

a	→ S/N F006A03464	g	S/N F006D01501 ↔ S/N F006D06397
b	→ S/N F006A05254	h	S/N F006D01737P →
c	→ S/N F006A11244Y	i	S/N F006D06398 →
d	→ S/N F006D03779	j	S/N F006A03465 →
e	→ S/N F006D06397	k	S/N F006A05255 →
f	2/1991 ↔ 12/1993	l	S/N F006A11245Y →

AXLE HOUSING AND ATTACHING PARTS (FIGURE 5-19)
(S/N F006D06398 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1479160	Drive Axle	1
1	1497902	Drive Axle Housing	1
2	332276	Plug	3
3	86007	Washer	12
4	1497903	Screw (Short)	8
4	1497904	Screw (Medium)	4
5	1497905	Wiper (Inner)	2
6	293322	Nut	2
7	116067	Lockwasher	2
8	1497906	Lockwasher	2
9	293323	Nut	2
10	1497907	Axle Shaft (LH)	1
10	1497908	Axle Shaft (RH)	1

DIFFERENTIAL AND CARRIER (FIGURE 5-20) OIL CLUTCH (→ S/N F006A01704)



HP240484

DIFFERENTIAL AND CARRIER
OIL CLUTCH (→ S/N F006A01704)

ITEM	PART NO.	DESCRIPTION	QTY
	287700	Differential Carrier	1
1	287725	Differential Housing	1
1		Case (Flange)	1
2		Case (Plain)	1
3	287728	Capscrew	16
4	88587	Washer	16
5	200977	Washer	2
6		Side Gear	2
7		Spider	1
8	287736	Capscrew	12
9	316816	Bevel Gear	1
10	240683	Snap Ring	1
11	296844	Bearing	1
12		Pinion	1
13	287720	Nut	1
14	125428	Washer	12
15	358099	Nut	12
16	287733	Ring (Adjuster)	2
17	224571	Bearing Cup	2
18	224570	Bearing Cone	2
19	287701	Carrier	1
20	234073	Screw	4
20	86007	Washer	4
21	234038	Dowel	4
22		Cap	2
23	200982	Washer	4
24		Pinion	4
25	141933	Cotter Pin	2
26	15316	Fitting	1
27	287721	Shim (0.003 in.)	AR
27	287722	Shim (0.005 in.)	AR
27	287723	Shim (0.010 in.)	AR
28	1323978	Spacer (0.242 in.)	AR
28	1323979	Spacer (0.244 in.)	AR
28	1323980	Spacer (0.246 in.)	AR
28	287704	Spacer (0.234 in.)	AR
28	287705	Shim (0.235 in.)	AR
28	287706	Shim (0.236 in.)	AR
28	287707	Shim (0.237 in.)	AR
28	287708	Shim (0.238 in.)	AR
28	287709	Shim (0.239 in.)	AR
28	287710	Spacer (0.240 in.)	AR
28	287711	Spacer (0.247 in.)	AR
28	287712	Shim (0.254 in.)	AR
28	287713	Shim (0.261 in.)	AR
28	287714	Shim (0.268 in.)	AR
28	287715	Shim (0.275 in.)	AR
28	287716	Shim (0.282 in.)	AR
28	287717	Shim (0.289 in.)	AR
28	287718	Shim (0.296 in.)	AR

DIFFERENTIAL AND CARRIER
OIL CLUTCH (→ S/N F006A01704)

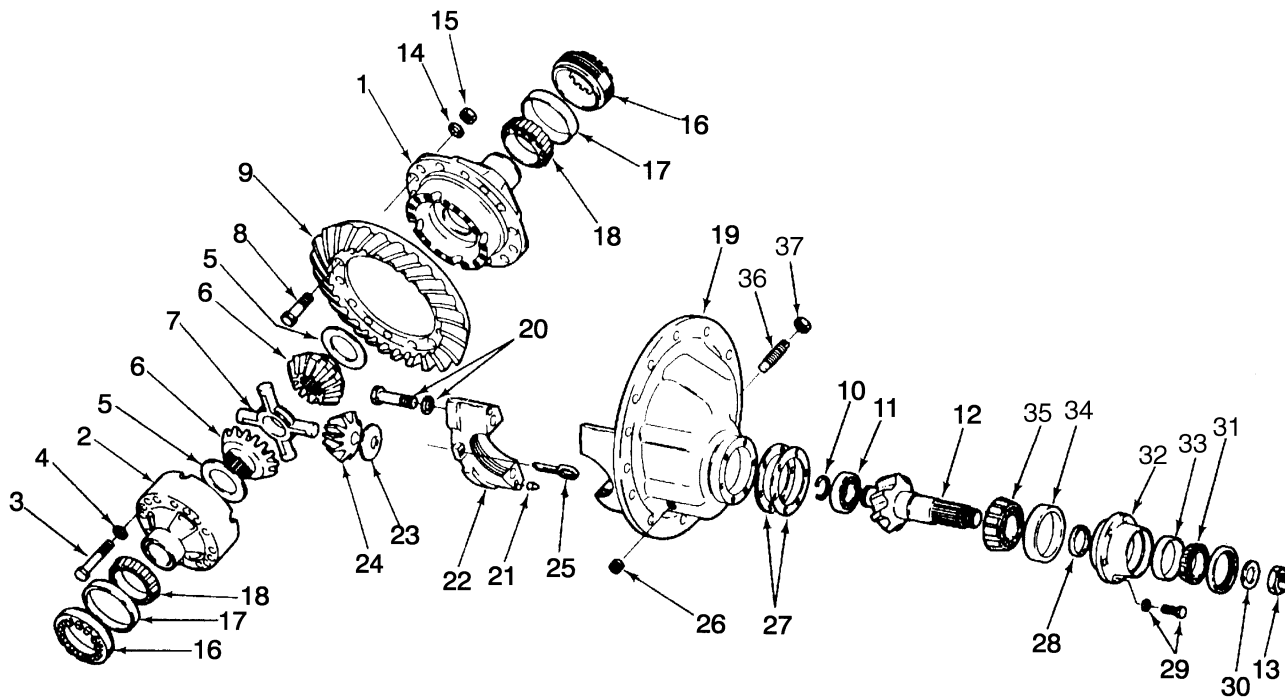
ITEM	PART NO.	DESCRIPTION	QTY
29	221596	Capscrew	8
29	273966	Washer	8
30	287719	Washer	1
31	138076	Bearing Cone	1
32	287703	Cage	1
33	200972	Bearing Cup (Tapered)	1
34	200972	Bearing Cup (Tapered)	1
35	143004	Bearing Cone	1
	287735	Kit-Hardware	1
	296723	Kit-Differential	1
	378289	Kit-Spacer	1

NOTES

[illegible]

DIFFERENTIAL AND CARRIER (FIGURE 5-21)

OIL CLUTCH (S/N F006A01705 →) (S/N F006D01501 ↔ S/N F006D03779)



HP240487

DIFFERENTIAL AND CARRIER **OIL CLUTCH (S/N F006A01705 →) (S/N F006D01501 ↔ S/N F006D03779)**

ITEM	PART NO.	DESCRIPTION	QTY
	378288	Drive Axle	1
1	287725	Differential Housing	1
1		Case (Flange)	1
2		Case (Plain)	1
3	287728	Capscrew	16
4	88587	Washer	16
5	200977	Washer	2
6		Side Gear	2
7		Spider	1
8	287736	Capscrew	12
9	378291	Gear and Pinion	1
10	240683	Snap Ring	1
11	296844	Bearing	1
12		Pinion	1
13	287720	Nut	1
14	125428	Washer	12
15	358099	Nut	12
16	287733	Ring (Adjuster)	2
17	224571	Bearing Cup	2
18	224570	Bearing Cone	2
19	378290	Carrier	1
20	234073	Screw	4
20	86007	Washer	4
21	234038	Dowel	4
22		Cap	2
23	200982	Washer	4
24		Pinion	4
25	141933	Cotter Pin	2
26	15316	Fitting	1
27	287721	Shim (0.003 in.)	AR
27	287722	Shim (0.005 in.)	AR
27	287723	Shim (0.010 in.)	AR
28	1323978	Spacer (0.242 in.)	AR
28	1323979	Spacer (0.244 in.)	AR
28	1323980	Spacer (0.246 in.)	AR
28	287704	Spacer (0.234 in.)	AR
28	287705	Shim (0.235 in.)	AR
28	287706	Shim (0.236 in.)	AR
28	287707	Shim (0.237 in.)	AR
28	287708	Shim (0.238 in.)	AR
28	287709	Shim (0.239 in.)	AR
28	287710	Spacer (0.240 in.)	AR
28	287711	Spacer (0.247 in.)	AR
28	287712	Shim (0.254 in.)	AR
28	287713	Shim (0.261 in.)	AR
28	287714	Shim (0.268 in.)	AR
28	287715	Shim (0.275 in.)	AR
28	287716	Shim (0.282 in.)	AR
28	287717	Shim (0.289 in.)	AR
28	287718	Shim (0.296 in.)	AR

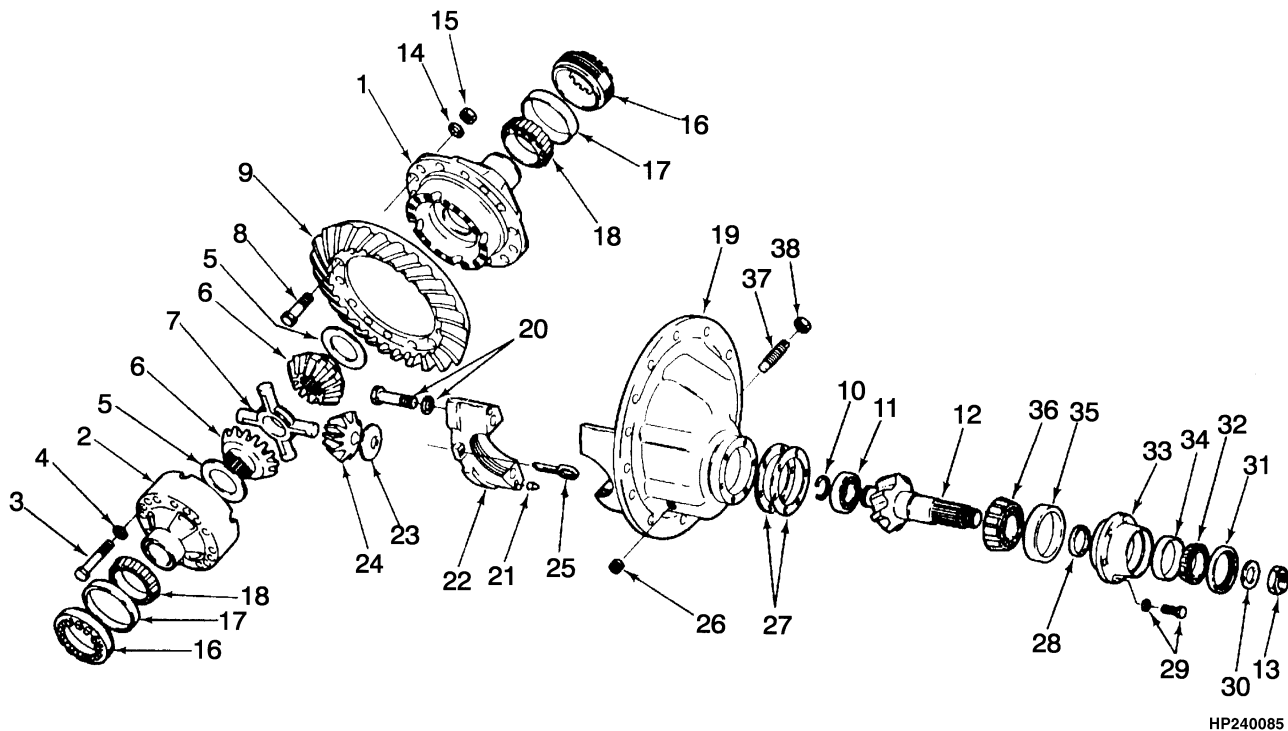
DIFFERENTIAL AND CARRIER
OIL CLUTCH (S/N F006A01705 →) (S/N F006D01501 ↔ S/N F006D03779)

ITEM	PART NO.	DESCRIPTION	QTY
29	221596	Capscrew	8
29	273966	Washer	8
30	287719	Washer	1
31	138076	Bearing Cone	1
32	287703	Cage	1
33	200972	Bearing Cup (Tapered)	1
34	200972	Bearing Cup (Tapered)	1
35	143004	Bearing Cone	1
36	165468	Screw	1
37	15032	Nut	1
	287735	Kit-Hardware	1
	296723	Kit-Differential	1
	378289	Kit-Spacer	1

NOTES

[illegible]

DIFFERENTIAL AND CARRIER (FIGURE 5-22) POWERSHIFT (→ S/N F006A01754)



**DIFFERENTIAL AND CARRIER
POWERSHIFT (→ S/N F006A01754)**

ITEM	PART NO.	DESCRIPTION	QTY
	366054	Differential	1
1	287725	Differential Housing	1
1		Case (Flange)	1
2		Case (Plain)	1
3	287728	Capscrew	16
4	88587	Washer	16
5	200977	Washer	2
6		Side Gear	2
7		Spider	1
8	287736	Capscrew	12
9	316816	Bevel Gear	1
10	240683	Snap Ring	1
11	296844	Bearing	1
12		Pinion	1
13	287720	Nut	1
14	125428	Washer	12
15	358099	Nut	12
16	287733	Ring (Adjuster)	2
17	224571	Bearing Cup	2
18	224570	Bearing Cone	2
19	287739	Carrier	1
20	234073	Screw	4
20	86007	Washer	4
21	234038	Dowel	2
22		Cap	2
23	200982	Washer	4
24		Pinion	4
25	141933	Cotter Pin	2
26	15316	Fitting	1
27	234041	Shim (0.003 in.)	AR
27	234039	Shim (0.005 in.)	AR
27	234040	Shim (0.010 in.)	AR
28	1323978	Spacer (0.242 in.)	AR
28	1323979	Spacer (0.244 in.)	AR
28	1323980	Spacer (0.246 in.)	AR
28	287704	Spacer (0.234 in.)	AR
28	287705	Shim (0.235 in.)	AR
28	287706	Shim (0.236 in.)	AR
28	287707	Shim (0.237 in.)	AR
28	287708	Shim (0.238 in.)	AR
28	287709	Shim (0.239 in.)	AR
28	287710	Spacer (0.240 in.)	AR
28	287711	Spacer (0.247 in.)	AR
28	287712	Shim (0.254 in.)	AR
28	287713	Shim (0.261 in.)	AR
28	287714	Shim (0.268 in.)	AR
28	287715	Shim (0.275 in.)	AR
28	287716	Shim (0.282 in.)	AR
28	287717	Shim (0.289 in.)	AR
28	287718	Shim (0.296 in.)	AR

**DIFFERENTIAL AND CARRIER
POWERSHIFT (→ S/N F006A01754)**

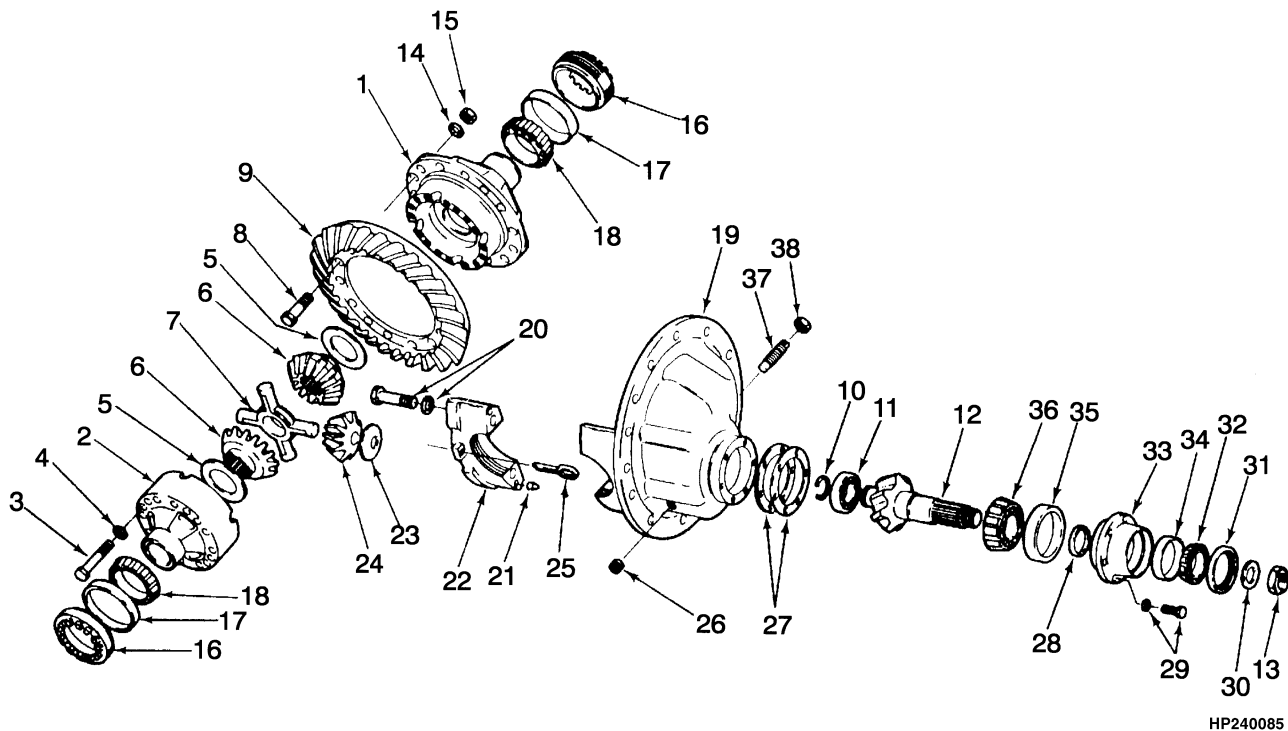
ITEM	PART NO.	DESCRIPTION	QTY
29	125607	Washer	8
29	134328	Capscrew	8
30	287719	Washer	1
31	366057	Oil Seal	1
32	230420	Bearing Cone	1
33	366056	Cage	1
34	230419	Bearing Cup	1
35	200972	Bearing Cup (Tapered)	1
36	143004	Bearing Cone	1
	287735	Kit-Hardware	1
	296723	Kit-Differential	1
	378289	Kit-Spacer	1

NOTES

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DIFFERENTIAL AND CARRIER (FIGURE 5-23)

POWERSHIFT (S/N F006A01755 →) (S/N F006D01501 ↔ S/N F006D006397)



HP240085

DIFFERENTIAL AND CARRIER **POWERSHIFT (S/N F006A01755 →) (S/N F006D01501 ↔ S/N F006D006397)**

ITEM	PART NO.	DESCRIPTION	QTY
	378287	Differential	1
1	287725	Differential Housing	1
1		Case (Flange)	1
2		Case (Plain)	1
3	287728	Capscrew	16
4	88587	Washer	16
5	200977	Washer	2
6		Side Gear	2
7		Spider	1
8	287736	Capscrew	12
9	378291	Gear and Pinion	1
10	240683	Snap Ring	1
11	296844	Bearing	1
12		Pinion	1
13	287720	Nut	1
14	125428	Washer	12
15	358099	Nut	12
16	287733	Ring (Adjuster)	2
17	224571	Bearing Cup	2
18	224570	Bearing Cone	2
19	378292	Carrier	1
20	234073	Screw	4
20	86007	Washer	4
21	234038	Dowel	4
22		Cap	2
23	200982	Washer	4
24		Pinion	4
25	141933	Cotter Pin	2
26	15316	Fitting	1
27	234041	Shim (0.003 in.)	AR
27	234039	Shim (0.005 in.)	AR
27	234040	Shim (0.010 in.)	AR
28	1323978	Spacer (0.242 in.)	AR
28	1323979	Spacer (0.244 in.)	AR
28	1323980	Spacer (0.246 in.)	AR
28	287704	Spacer (0.234 in.)	AR
28	287705	Shim (0.235 in.)	AR
28	287706	Shim (0.236 in.)	AR
28	287707	Shim (0.237 in.)	AR
28	287708	Shim (0.238 in.)	AR
28	287709	Shim (0.239 in.)	AR
28	287710	Spacer (0.240 in.)	AR
28	287711	Spacer (0.247 in.)	AR
28	287712	Shim (0.254 in.)	AR
28	287713	Shim (0.261 in.)	AR
28	287714	Shim (0.268 in.)	AR
28	287715	Shim (0.275 in.)	AR
28	287716	Shim (0.282 in.)	AR
28	287717	Shim (0.289 in.)	AR
28	287718	Shim (0.296 in.)	AR

DIFFERENTIAL AND CARRIER

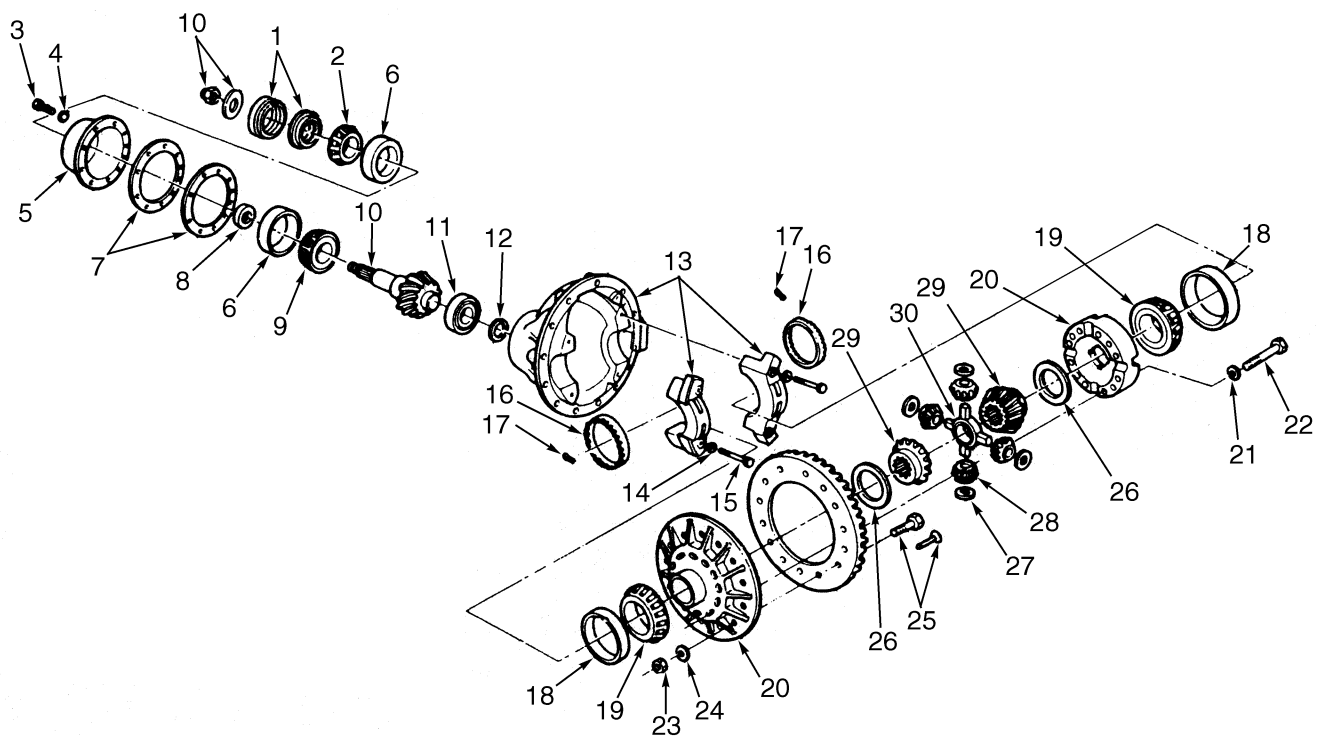
POWERSHIFT (S/N F006A01755 →) (S/N F006D01501 ↔ S/N F006D006397)

ITEM	PART NO.	DESCRIPTION	QTY
29	134328	Capscrew	8
29	125607	Washer	8
30	287719	Washer	1
31	366057	Oil Seal	1
32	230420	Bearing Cone	1
33	366056	Cage	1
34	230419	Bearing Cup	1
35	200972	Bearing Cup (Tapered)	1
36	143004	Bearing Cone	1
37	165468	Screw	1
38	15032	Nut	1
	287735	Kit-Hardware	1
	296723	Kit-Differential	1
	378289	Kit-Spacer	1

NOTES

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DIFFERENTIAL AND CARRIER (FIGURE 5-24) POWERSHIFT (S/N F006D06398 →)



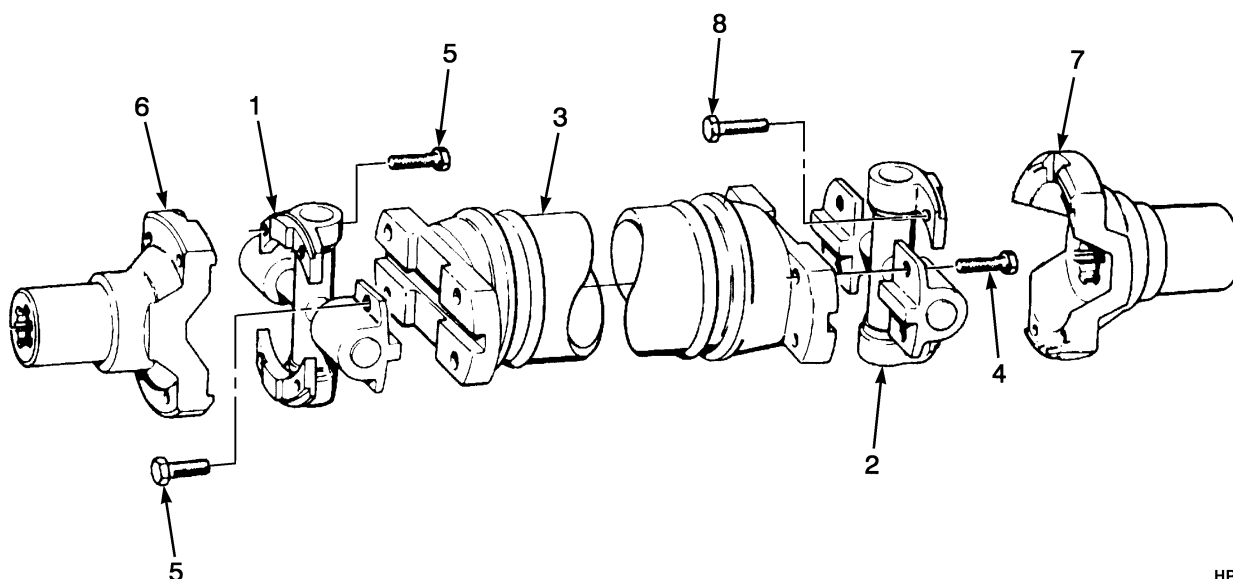
HP070072

**DIFFERENTIAL AND CARRIER
POWERSHIFT (S/N F006D06398 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	1479160	Drive Axle	1
	1497909	Differential	1
1	1642099	Oil Seal	1
2	1347812	Bearing Cone	1
3	1347819	Capscrew	8
4	1450861	Washer	8
5	1380779	Cage	1
6	200972	Bearing Cup (Tapered) (Outer)	1
6	30062	Bearing Cup (Inner)	1
7	1347814	Shim	1
7	1347815	Shim	1
7	1347816	Shim	1
7	1347817	Shim	1
8		Spacer	2
9	1347774	Bearing Cone	1
10	1497910	Bevel Gear	1
10	1357734	Locknut (Not Illustrated)	1
10	1312083	Washer (Not Illustrated)	1
11	296844	Bearing	1
12	240683	Snap Ring	1
13	1374097	Screw (Not Illustrated)	1
13	1312616	Locknut (Not Illustrated)	1
13	1380777	Ball (Not Illustrated)	2
13	1502129	Bearing Cap	1
14	1347770	Washer	4
15	293716	Capscrew	4
16	1347839	Ring Bearing	2
17	86008	Cotter Pin	2
18	1475420	Bearing Cup	2
19	1475421	Bearing Cone	2
20	1489409	Differential Housing	1
20	1590043		
	1643396	Case	1
21	1450861	Washer	16
22	1347831	Capscrew	16
23	1374550	Nut	12
24	125428	Washer	12
25	1347822	Bolt	12
26	1379752		
	1380797	Thrust Washer	2
27	200982	Washer	4
28	1347835	Pinion	4
29	1380776	Gear	2
30	1318626		
	1374588	Washer	1
	1347813	Kit-Shim	1
	1347800	Kit-Spacer	1
	1380798	Carrier	1
	1489287	Kit-Hardware	1

**DIFFERENTIAL AND CARRIER
POWERSHIFT (S/N F006D06398 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	1489286	Kit-Differential	1

DRIVE SHAFT ASSEMBLY (FIGURE 5-25)

HP240086

KEY:**A:** Oil Clutch**B:** Powershift

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a 340269	Universal Joint	1	..
	b 340270	Universal Joint	..	1
	c 1484173	Drive Shaft	..	1
1	199861	Bearing And Spider Assembly	..	1
1	a 301183	Spider	2	..
2	b 199459	Spider And Bearing Assembly	..	1
2	c 199861	Bearing And Spider Assembly	..	1
3	a 366788	Tube	1	..
3	b 366789	Tube Assy	..	1
3	c 1498113	Tube Assy	..	1
4	a 221507	Capscrew	8	..
4	221507	Capscrew	..	8
5	a 221466	Capscrew	4	..
5	221507	Capscrew	..	4
6	a 284142	Fitting (Transmission End)	1	..
6	366790	Yoke (Transmission End)	..	1
7	b 282650	Yoke (Differential End)	..	1
7	c 1483880	Yoke (Differential End)	..	1
7	a 284169	Fitting (Differential End)	1	..
8	b 163739	Capscrew	..	4
8	a 221466	Capscrew	4	..
8	c 221507	Capscrew	..	4
8	a 226414	Loctite	AR	..
8	226414	Loctite	..	AR

FOOTNOTES:

a → S/N F006D03779

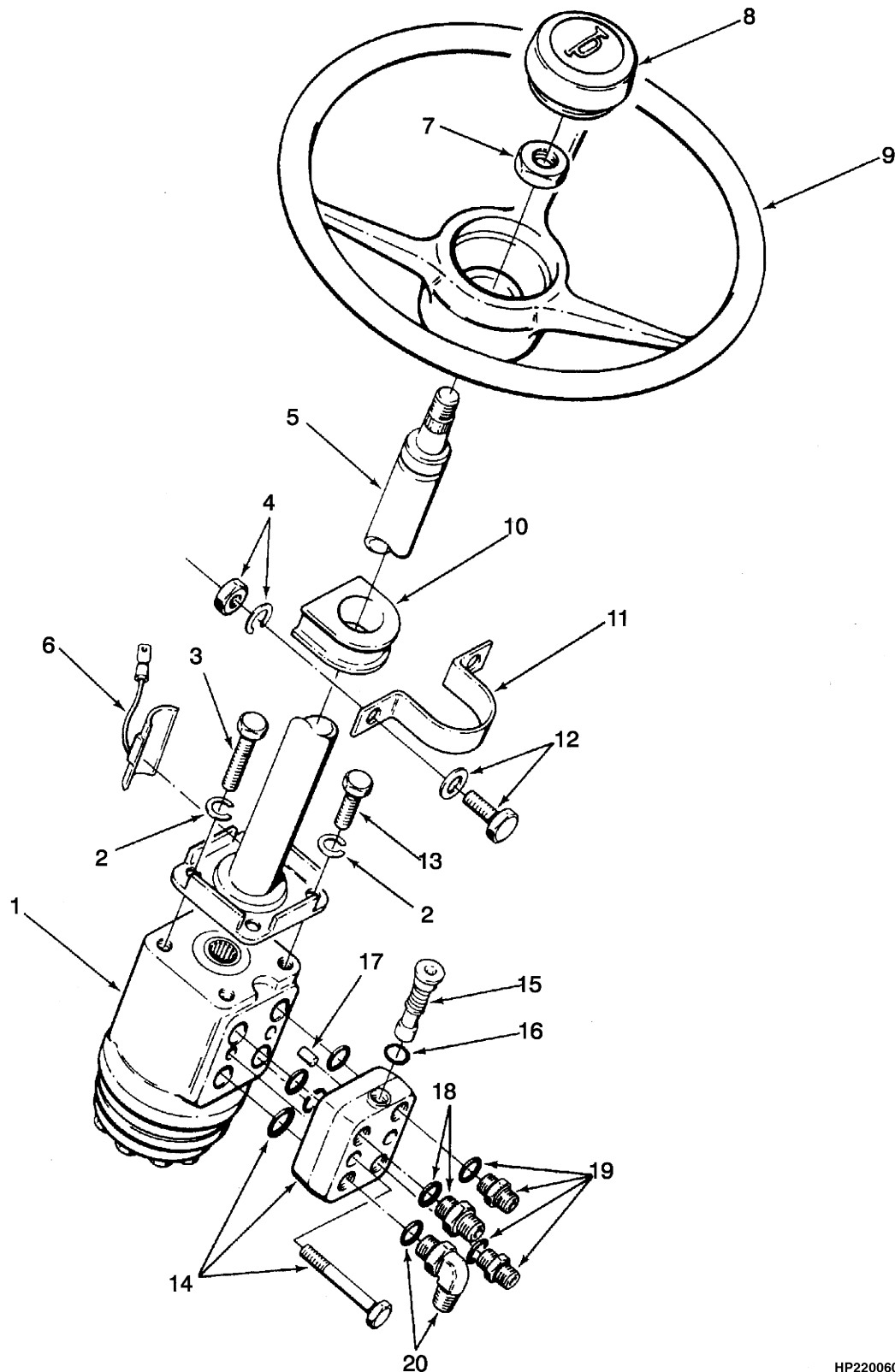
b → S/N F006D06397

c S/N F006D06398 →

SECTION 6
STEERING SYSTEM

DESCRIPTION	PAGE
FLOW DIVIDER	
HEAVY DUTY	6-28
PUMP ADAPTER	
DIESEL	6-24
STEERING AXLE	
→ S/N F006D05929	6-10
S/N F006D05930 →	6-14
STEERING COLUMN	
→ S/N F006A03039	6-2
S/N F006A03040 ↔ S/N F006A06480	6-4
S/N F006D01501 → S/N F006A06481 →	6-6
STEERING CONTROL UNIT	6-8
STEERING CYLINDER	6-30
STEERING PUMP	
→ S/N F006D05389	6-18
S/N F006D05390 →	6-22
HEAVY DUTY	6-26

STEERING COLUMN (FIGURE 6-1) (→ S/N F006A03039)



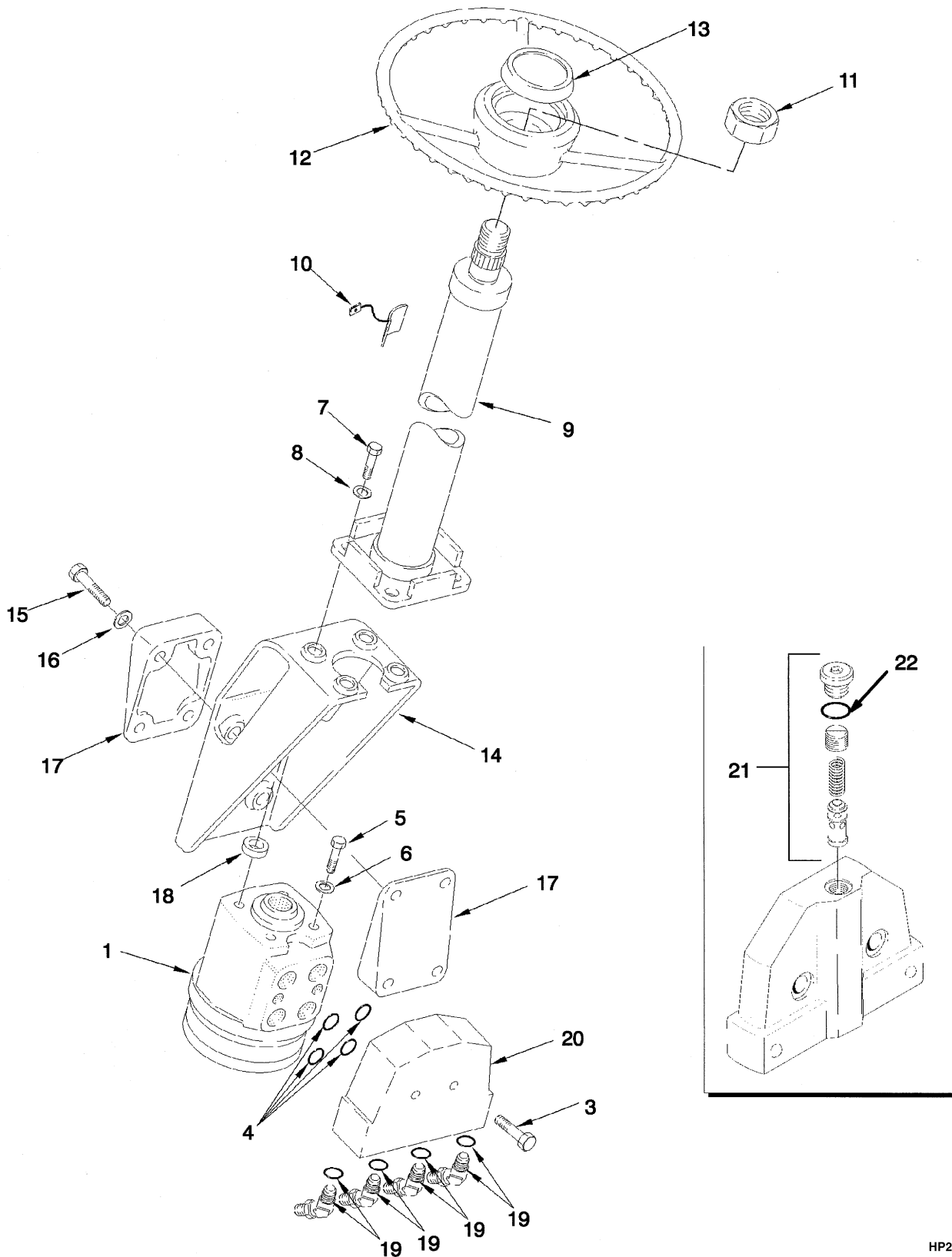
HP220060

STEERING COLUMN

(→ S/N F006A03039)

ITEM	PART NO.	DESCRIPTION	QTY
1	357288	Steering Pump (☞ Figure 6-4).....	1
2	15156	Lockwasher	4
3	16815	Capscrew	3
4	239503	Nut	2
4	292681	Lockwasher	2
5	286771	Steering Column	1
6	362816	Kit-Terminal	1
7	345423	Nut	1
8	371666	Horn Button	1
9	352955	Steering Wheel	1
10	306032	Grommet	1
11	309081	Bracket	1
12	136681	Capscrew	2
12	320157	Washer	2
13	16597	Capscrew	1
14	357295	Valve Block	1
14	366066	Kit-Repair Valve	1
15	366063	Relief Valve	1
16	366065	Seal	1
17	366064	Pin	1
18	16541	Fitting	1
18	16484	O-Ring	1
19	16745	Fitting	2
19	16484	O-Ring	1
20	16559	Fitting	1
20	16484	O-Ring	1

STEERING COLUMN (FIGURE 6-2) (S/N F006A03040 ↔ S/N F006A06480)



HP220061

STEERING COLUMN

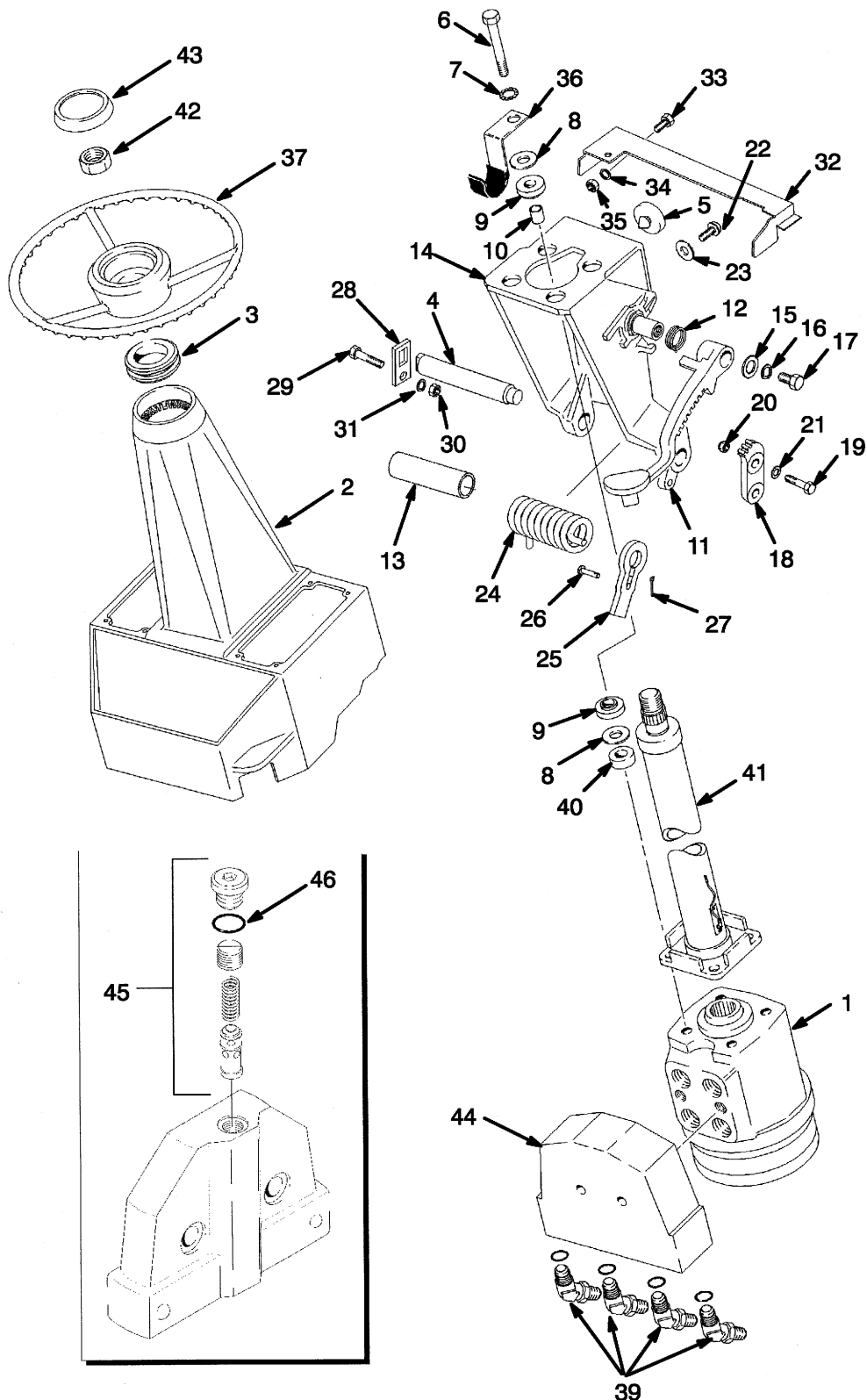
(S/N F006A03040 ↔ S/N F006A06480)

ITEM	PART NO.	DESCRIPTION	QTY
1	357288	Steering Pump (☞ Figure 6-4).....	1
3		Capscrew	2
4	265732	O-Ring	4
5	a 16597	Capscrew	1
6	a 15920	Lockwasher	1
7	a 16815	Capscrew	3
7	a 16815	Capscrew	4
8	a 15920	Lockwasher	3
8	b 15920	Lockwasher	4
9	1312733	Steering Column	1
10	362816	Kit-Terminal	1
11	345423	Nut	1
12	352955	Steering Wheel	1
13	371666	Horn Button	1
14	b 1320618	Bracket	1
14	a 1312712	Bracket	1
15	a 136985	Capscrew	4
15	b 292516	Capscrew	4
16	296361	Washer	4
17	b 1324188	Adapter	2
18	b 1300165	Spacer	4
18	a 1300165	Spacer	3
19	17196	Fitting	4
19	16484	O-Ring	1
20	1311011	Valve Block	1
21	366063	Relief Valve	1
22	366065	Seal	1
23	366064	Pin	1
24	389824	Kit-Seal	1
25	366066	Kit-Repair Valve	1

FOOTNOTES:**a** → S/N F006A04282**b** S/N F006A04283 →

STEERING COLUMN (FIGURE 6-3)

(S/N F006D01501 →) (S/N F006A06481 →)



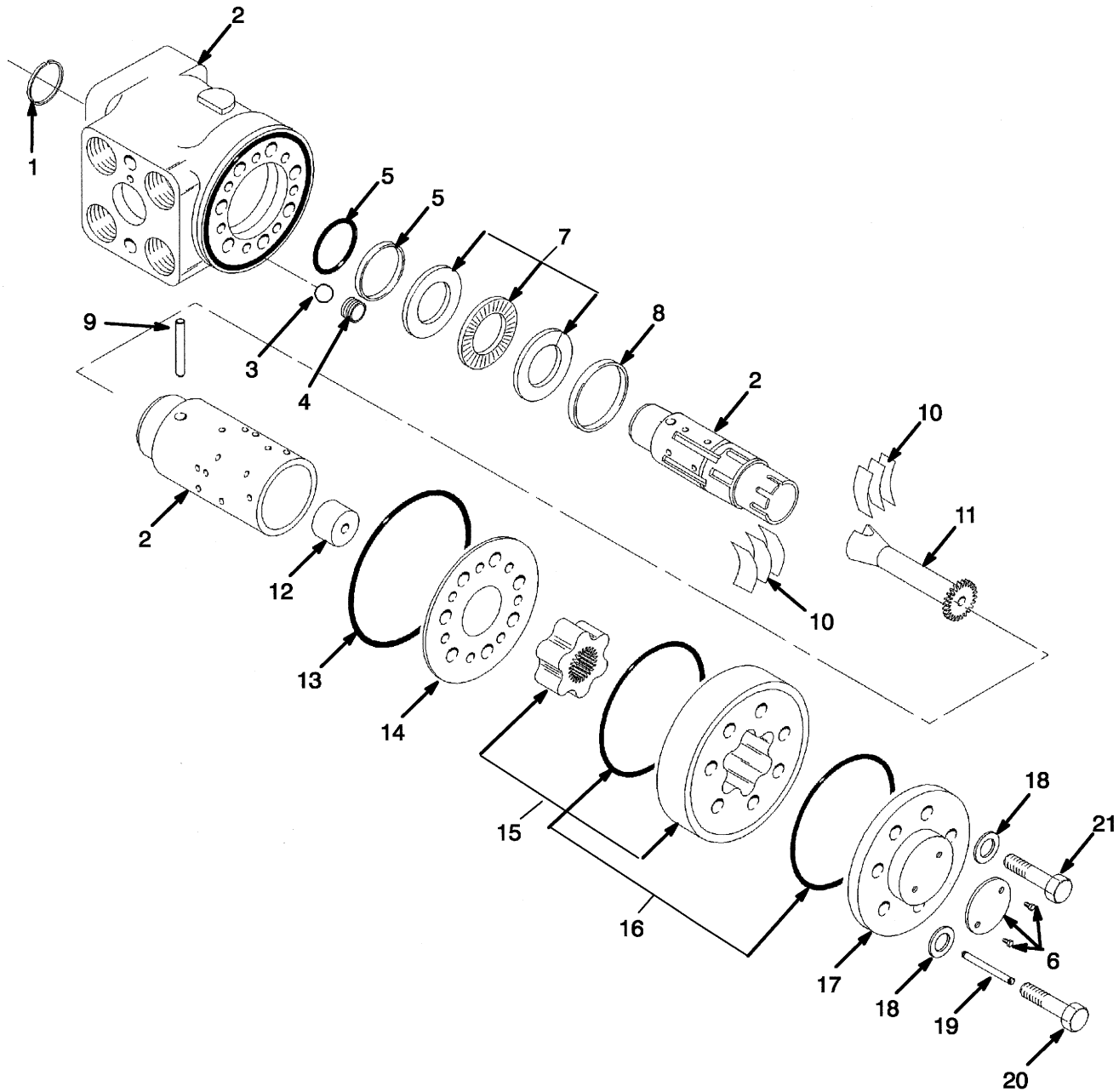
HP220062

STEERING COLUMN

(S/N F006D01501 →) (S/N F006A06481 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	357288	Steering Pump (☞ Figure 6-4).....	1
2	1336570	Steering Column	1
3	1336465	Grommet	1
4	1336479	Shaft	1
5	1346744	Bumper	1
6	16376	Capscrew	4
7	15920	Lockwasher	4
8	1334790	Washer	8
9	1336468	Isolator	
10	1336503	Spacer	4
11	1336480	Latch	1
12	1336483	Spring	1
13	1350404	Bushing	1
14	1344055	Bracket	1
14	1346867	Bracket (Optional)	1
15	296442	Washer	1
16	292683	Lockwasher	1
17	132860	Capscrew	1
18	1336474	Anchor	1
19	287860	Capscrew	2
20	316826	Nut	2
21	296421	Washer	2
22	1346863	Capscrew	2
23	1300117	Washer	2
24	1346743	Spring	1
25	1336476	Tensioner	1
26	930775	Pin	1
27	15203	Cotter Pin	1
28	1336472	Plate	1
29	136749	Screw	1
30	239503	Nut	1
31	293780	Lockwasher	1
32	1336481	Cover	1
33	292500	Capscrew	2
34	292680	Washer	2
35	136687	Nut	2
36	1344054	Clamp	1
37	352955	Steering Wheel	1
38	296406	Lockwasher	2
39	17196	Fitting	4
40	1300165	Spacer	4
41	1312733	Steering Column	1
41	362816	Kit-Terminal	1
42	345423	Nut	1
43	371666	Horn Button	1
44	1311011	Valve Block	1
44	366066	Kit-Repair Valve (Screws and o-rings)	1
45	366063	Relief Valve	1
46	366065	Seal	1

STEERING CONTROL UNIT (FIGURE 6-4)



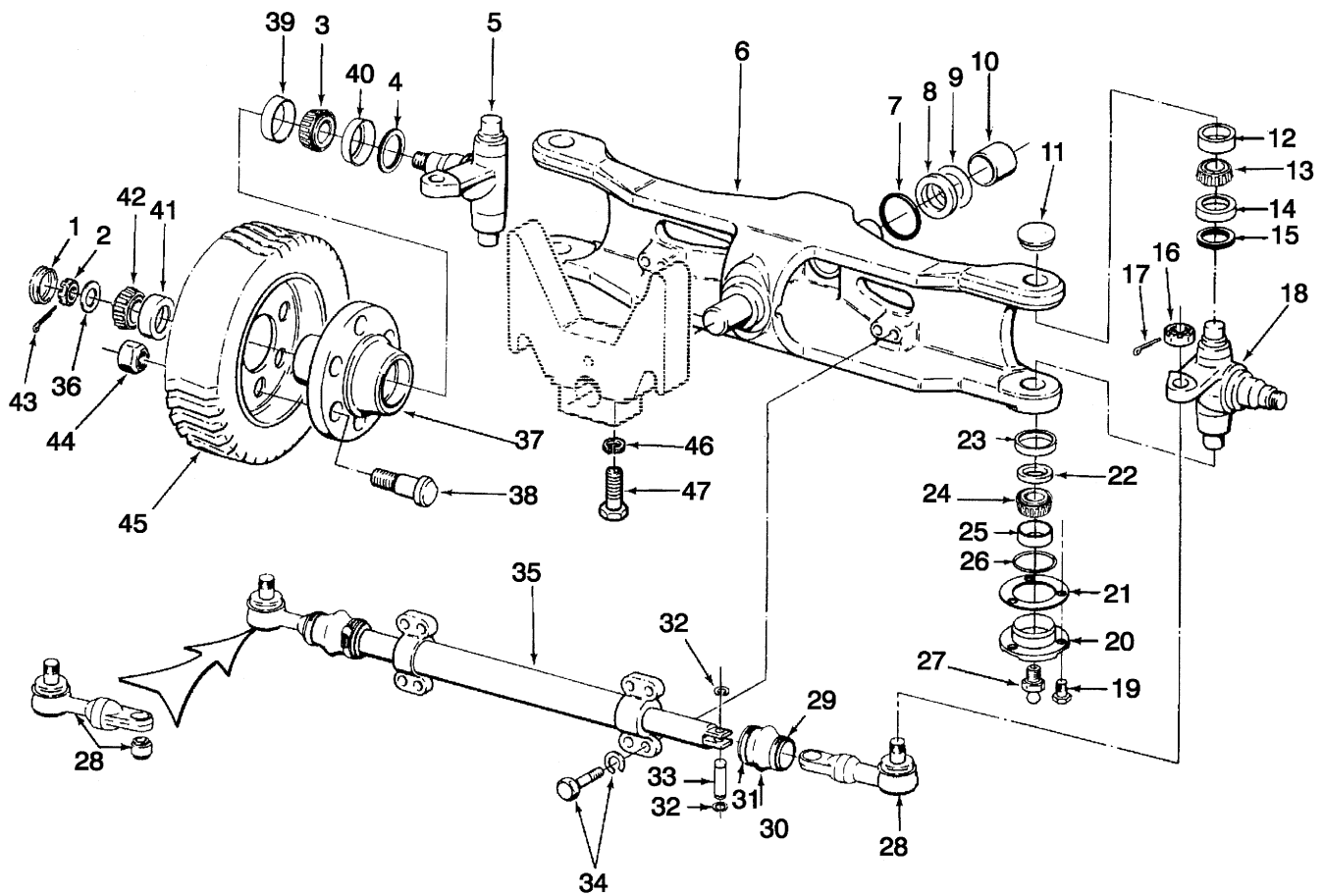
HP220063

STEERING CONTROL UNIT

ITEM	PART NO.	DESCRIPTION	QTY
	357288	Steering Pump	1
1		Sealing Ring	1
2		Housing	1
2		Spool	1
3	345408	Ball	1
4	345409	Bushing	1
5	a 1384429	Seal	1
5	a	O-Ring	1
5	a	Ring	1
5	b 2032230	Seal	1
6		Plate	1
6		Screw	2
7	345410	Bearing Set	1
8	345411	Ring	1
9	345412	Pin	1
10	1303787	Spring	2
11	1355326	Shaft	1
12	366067	Spacer	1
13		O-Ring	1
14	1357026	Plate	1
15	366068	Gear Set	1
16		O-Ring	2
17	345424	End Cover	1
18		Washer	7
19	345418	Pin	1
20	366069	Screw	1
21	371344	Capscrew	6
	2032229	Kit-Seal	1

FOOTNOTES:**a** → 11/1996**b** 11/1996 →

STEERING AXLE (FIGURE 6-5) (→ S/N F006D05929)



HP220064

STEERING AXLE

(→ S/N F006D05929)

ITEM	PART NO.	DESCRIPTION	QTY
1	69029	Cap	2
2	53641	Wheel Nut (Spindle)	2
3	230325	Bearing Cone	2
4	129498	Seal	2
5	349279	Spindle (LH)	1
6	346299	Steering Axle	1
6	349281	Shaft	1
7	131193	Sealing Ring	2
8	1335870	Flange	2
9	131190	Shim (0.110 in.)	AR
9	131191	Shim (0.040 in.)	AR
10	1335873	Bushing	2
11	185860	Plug	2
11	288394	Sealant	AR
12	230421	Bearing Cup	2
13	153715	Bearing Cone	2
14	153717	Wear Sleeve	2
15	153716	Seal	2
16	21110	Nut	2
17	15226	Cotter Pin	2
18	349280	Spindle (RH)	1
19	293628	Capscrew	6
20	266612	Bearing Cap (Assembly)	2
20	266735	Bearing Cap	1
20	135658	Bearing Cup	1
21	185856	Shim (0.005 in.)	AR
21	185857	Shim (0.007 in.)	AR
21	185858	Shim (0.020 in.)	AR
22	266728	Seal	2
23	266733	Seal	2
24	135657	Bearing Cone	2
25	135658	Bearing Cup	2
26	39678	O-Ring	2
27	13957	Grease Fitting	2
28	185872	Bushing	1
28	357294	Tie Rod	2
29	369804	Clamp	2
30	349282	Boot	2
31	119236	Clamp	2
32	58903	Snap Ring	4
33	1568271	Pin	2
34	292685	Lockwasher	8
34	293688	Capscrew	8
35	344390	Steering Cylinder (☞ Figure 6-12)	1
36	1383775	Washer	2
37	357293	Hub	2
38	107296	Wheel Stud	6
39	230324	Bearing Cup	1
40	129499	Wear Sleeve	1
41	153834	Bearing Cup	1

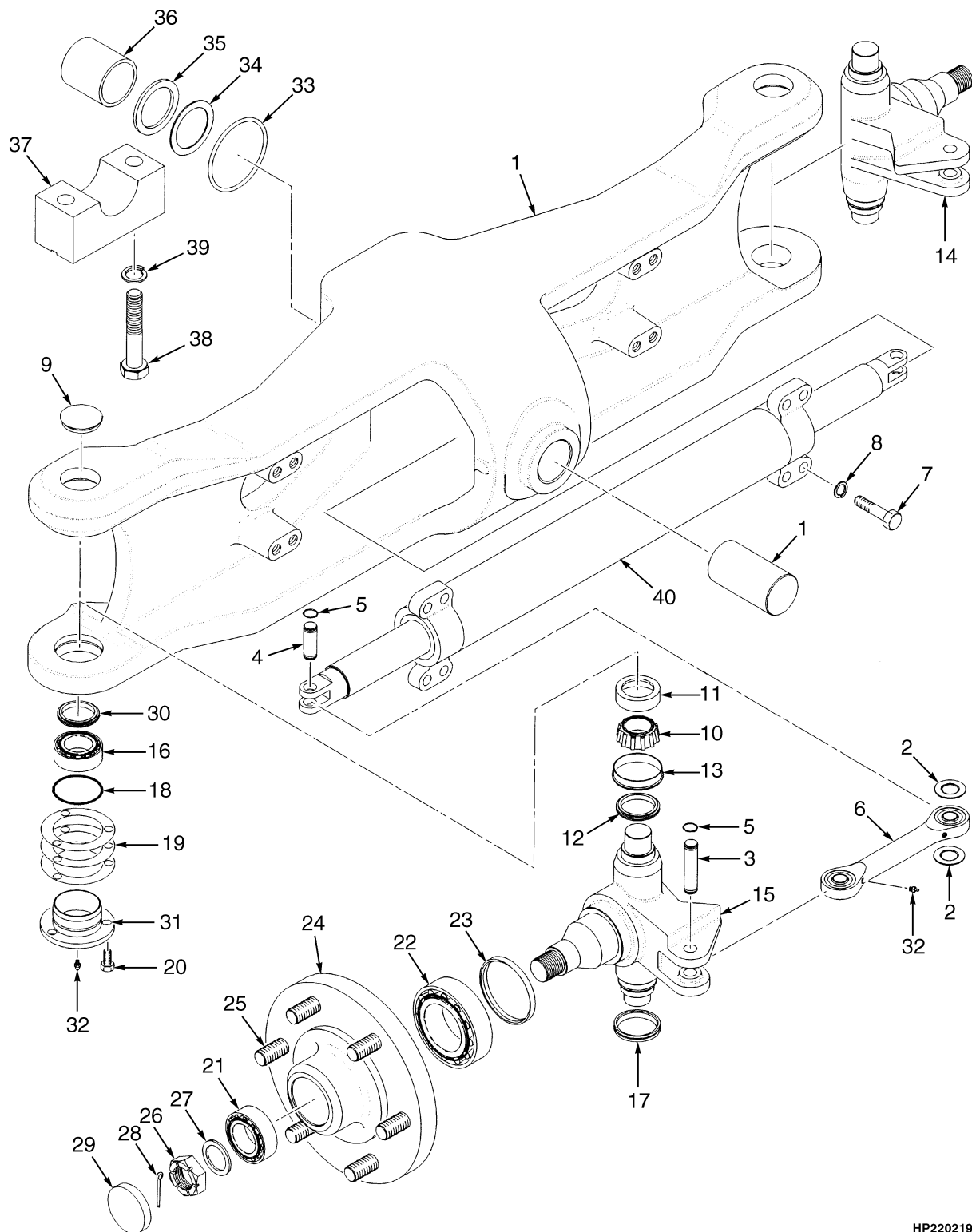
STEERING AXLE
(→ S/N F006D05929)

ITEM	PART NO.	DESCRIPTION	QTY
42	153835	Bearing Cone	2
43	15225	Cotter Pin	2
44	11276	Wheel Nut	12
45		Tire and Wheel	2
46	292687	Lockwasher	4
47	292590	Capscrew	4
48	358674	Sealant	AR
	996025	Kit-Steering Axle	1

NOTES

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STEERING AXLE (FIGURE 6-6) (S/N F006D05930 →)



HP220219

STEERING AXLE
(S/N F006D05930 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	346299	Steering Axle	1
1	349281	Shaft	2
2	1345684	Seal	8
3	1544970	Pin	2
4	1544971	Pin	2
5	58903	Snap Ring	8
6	a 1383799	Tie Rod	2
6	b 1491406	Tie Rod	2
6	1350680	Bearing	2
7	293688	Capscrew	8
8	292685	Lockwasher	8
9	185860	Plug	2
10	153715	Bearing Cone	2
11	230421	Bearing Cup	2
12	153716	Seal	2
13	153717	Wear Sleeve	2
14	1383795	Spindle (RH)	1
15	1383797	Spindle (LH)	1
16	1374823	Bearing Set	2
16	135658	Bearing Cup	1
16	135657	Bearing Cone	1
17	266733	Seal	2
18	39678	O-Ring	2
19	185856	Shim (0.005 in.)	AR
19	185857	Shim (0.007 in.)	AR
19	185858	Shim (0.020 in.)	AR
19	1563858	Shim (0.002 in.)	AR
20	293628	Capscrew	6
21	153835	Bearing Cone	2
21	153834	Bearing Cup	2
22	230325	Bearing Cone	2
22	230324	Bearing Cup	2
23	129498	Seal	2
24	357293	Hub	2
24	230324	Bearing Cup	1
24	153834	Bearing Cup	1
24	129499	Wear Sleeve	1
25	107296	Wheel Stud	6
26	53641	Wheel Nut (Spindle)	2
27	1383775	Washer	2
28	15225	Cotter Pin	2
29	69029	Cap	2
30	266728	Seal	2
31	266612	Bearing Cap (Assembly)	2
31	266735	Bearing Cap	1
31	135658	Bearing Cup	1
32	13957	Grease Fitting	6
33	131193	Sealing Ring	2
34	131190	Shim (0.110 in.)	3
35	131191	Shim (0.040 in.)	3

STEERING AXLE
(S/N F006D05930 →)

ITEM	PART NO.	DESCRIPTION	QTY
36	1335873	Bushing	2
37	350183	Bearing Cap	2
38	292590	Capscrew	4
39	292687	Lockwasher	4
40	344390	Steering Cylinder (☞ Figure 6-12).....	1
41	11276	Wheel Nut (Not Illustrated)	12

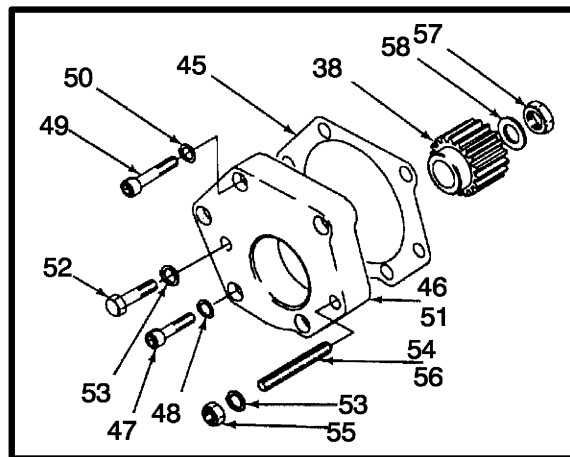
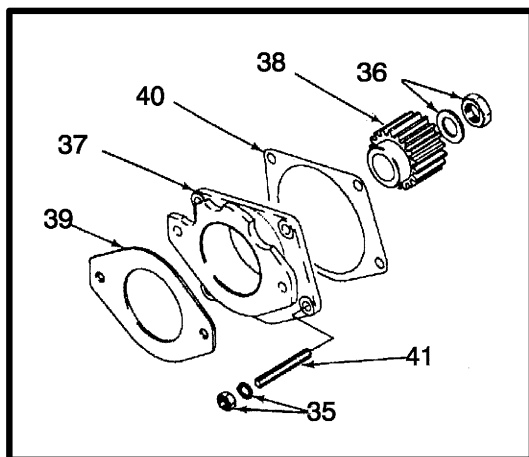
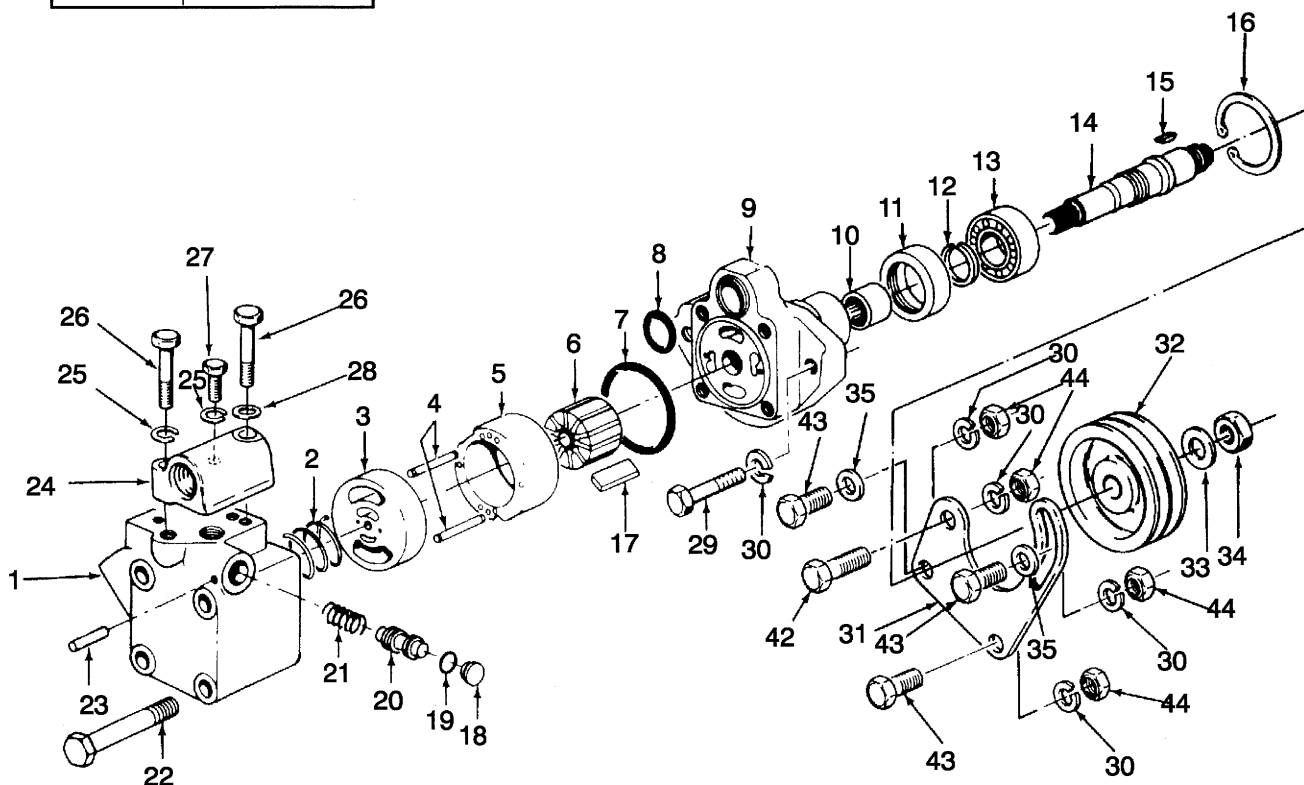
FOOTNOTES:**a** → S/N F006D06576Y**b** S/N F006D06577Y →

NOTES

[illegible]

STEERING PUMP (FIGURE 6-7) (→ S/N F006D05389)

PARTS SERVICE GRAM	
ITEM	GRAM
38,46	GB-8



HP220066

STEERING PUMP

(→ S/N F006D05389)

KEY:**A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1		Cover	1	1
	344397	Hydraulic Pump	1	1
2	96952	Spring	1	1
3	133816	Plate	1	1
4	54767	Pin	2	2
5		Ring	1	1
6		Rotor	1	1
7		O-Ring	1	1
8		O-Ring	1	1
9		Body	1	1
10	234004	Needle Bearing	1	1
11		Seal	1	1
12	169009	Snap Ring	1	1
13	97847	Ball Bearing	1	1
14	97846	Shaft	1	1
15	32033	Woodruff Key	1	1
16	193000	Snap Ring	1	1
17		Pump Kit	1	1
18	192326	Plug	1	1
19		O-Ring	1	1
20	144121	Relief Valve	1	1
21	236024	Spring	1	1
22	18540	Capscrew	4	4
23	236026	Pin	1	1
24	313022	Sealant	AR	..
24	366684	Manifold (Inlet)	1	1
25	15154	Lockwasher	2	2
26	18471	Capscrew	2	2
27	18462	Capscrew	1	1
28	16873	Washer	1	1
29	16634	Capscrew	..	2
30	c 15156	Lockwasher	4	..
30	f 15156	Lockwasher	2	..
31	c 344355	Plate	1	..
32	c 344363	Pulley	1	..
32	e 1377748	Pulley	1	..
32	g 1383219	Pulley	1	..
33	15135	Washer	1	..
34	138750	Nut	1	..
35	a 15005	Nut	..	4
35	a 15155	Lockwasher	..	5
35	a 226414	Loctite	..	AR
36	a 138750	Nut	..	1
36	a 15135	Washer	..	1
37	a 168889	Adapter	..	1

STEERING PUMP
(→ S/N F006D05389)**KEY:****A:** Gasoline and LPG**B:** Diesel

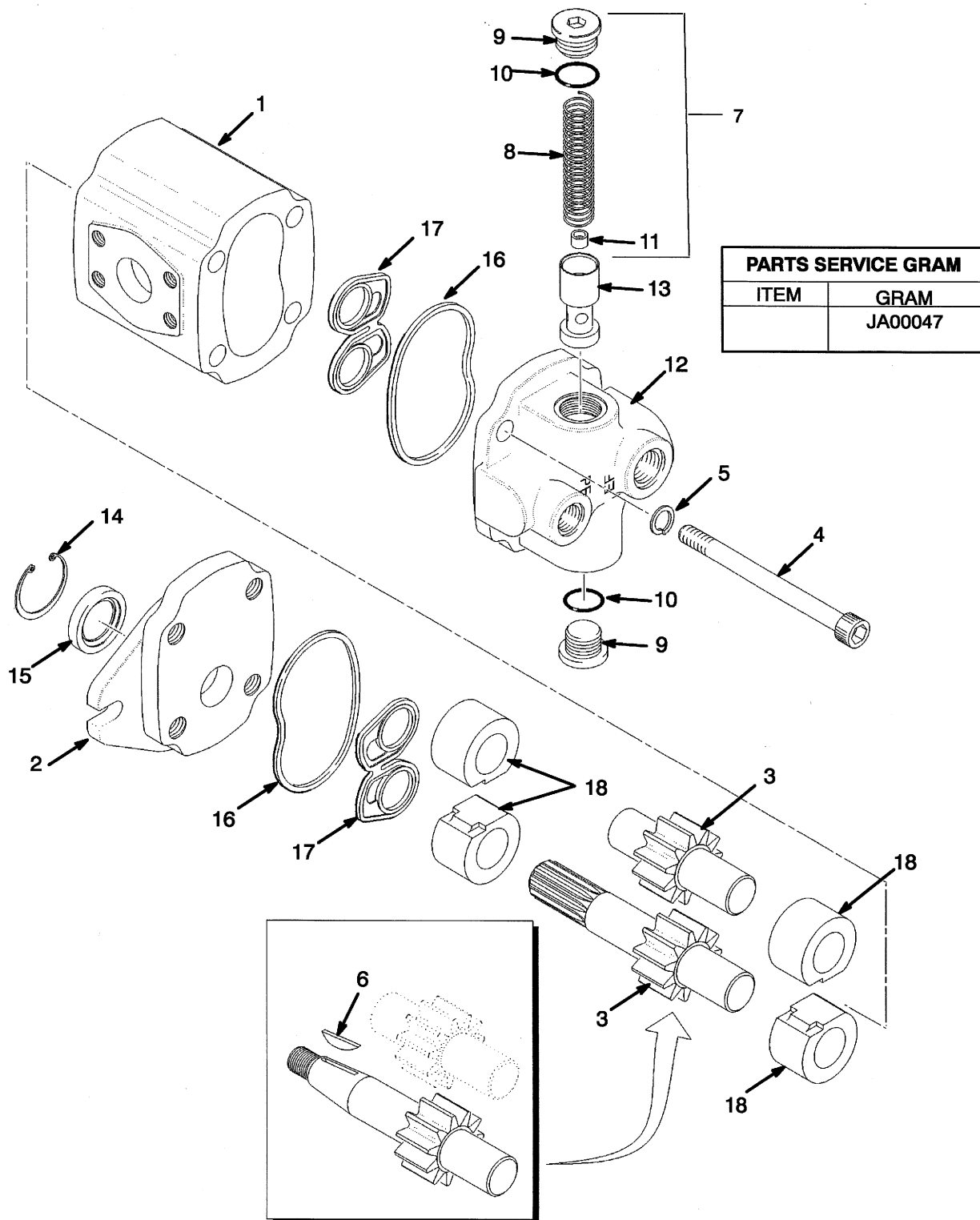
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
38	b 168887	Gear	..	1
38	jk 1337802	Gear	..	1
39	a 982161	Joint	..	1
40	a 168890	Gasket	..	1
41	a 983271	Stud	..	4
42	f 16815	Capscrew	2	..
42	c 16816	Capscrew	1	..
43	c 16815	Capscrew	3	..
44	f 15056	Nut	2	..
44	c 15056	Nut	4	..
45	ik 1329660	Gasket	..	1
46	b 360585	Adapter	..	1
46	djk 1337803	Adapter	..	1
46	h 1455430	Adapter	..	1
47	dik 296013	Capscrew	..	4
47	ikh 296013	Capscrew	..	5
48	dik 293780	Lockwasher	..	4
48	ikh 293780	Lockwasher	..	5
49	ik 296026	Capscrew	..	1
50	ik 293781	Lockwasher	..	1
51	ik 313022	Sealant	..	AR
52	ikh 136749	Screw	..	2
52	dik 176640	Bolt	..	1
53	ik 292681	Lockwasher	..	2
54	dik 385173	Wheel Stud	..	1
55	dik 239503	Nut	..	1
56	dik 251099	Loctite	..	AR
57	ik 138750	Nut	..	1
58	ik 15135	Washer	..	1
	147526	Kit-Steering Pump	1	1
	133821	Kit-Seal	1	1

FOOTNOTES:**a** → S/N F006A03039**b** → S/N F006A06446**c** → S/N F006D02202**d** → S/N F006D04442**e** S/N F006D02203 ↔ S/N F006D02947 INC.
02960, 02976 EXC. 02936**f** S/N F006D02203 →**g** S/N F006D02948 → INC. 2936 EXC. 2960, 2976**h** S/N F006D04443 →**i** S/N F006A03040 →**j** S/N F006A06447 →**k** S/N F006D01501 →

NOTES

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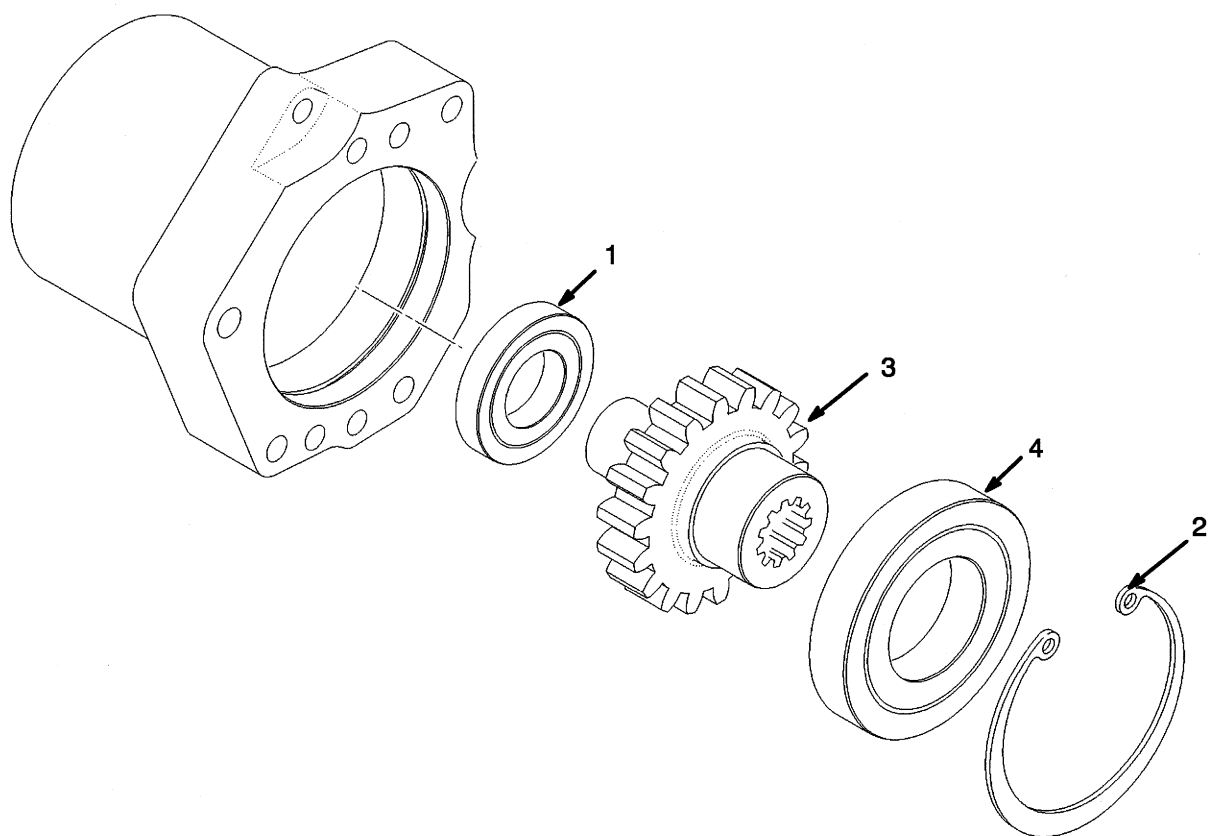
STEERING PUMP (FIGURE 6-8) (S/N F006D05390 →)



HP220067

STEERING PUMP
(S/N F006D05390 →)**KEY:****A: Gasoline and LPG****B: Diesel**

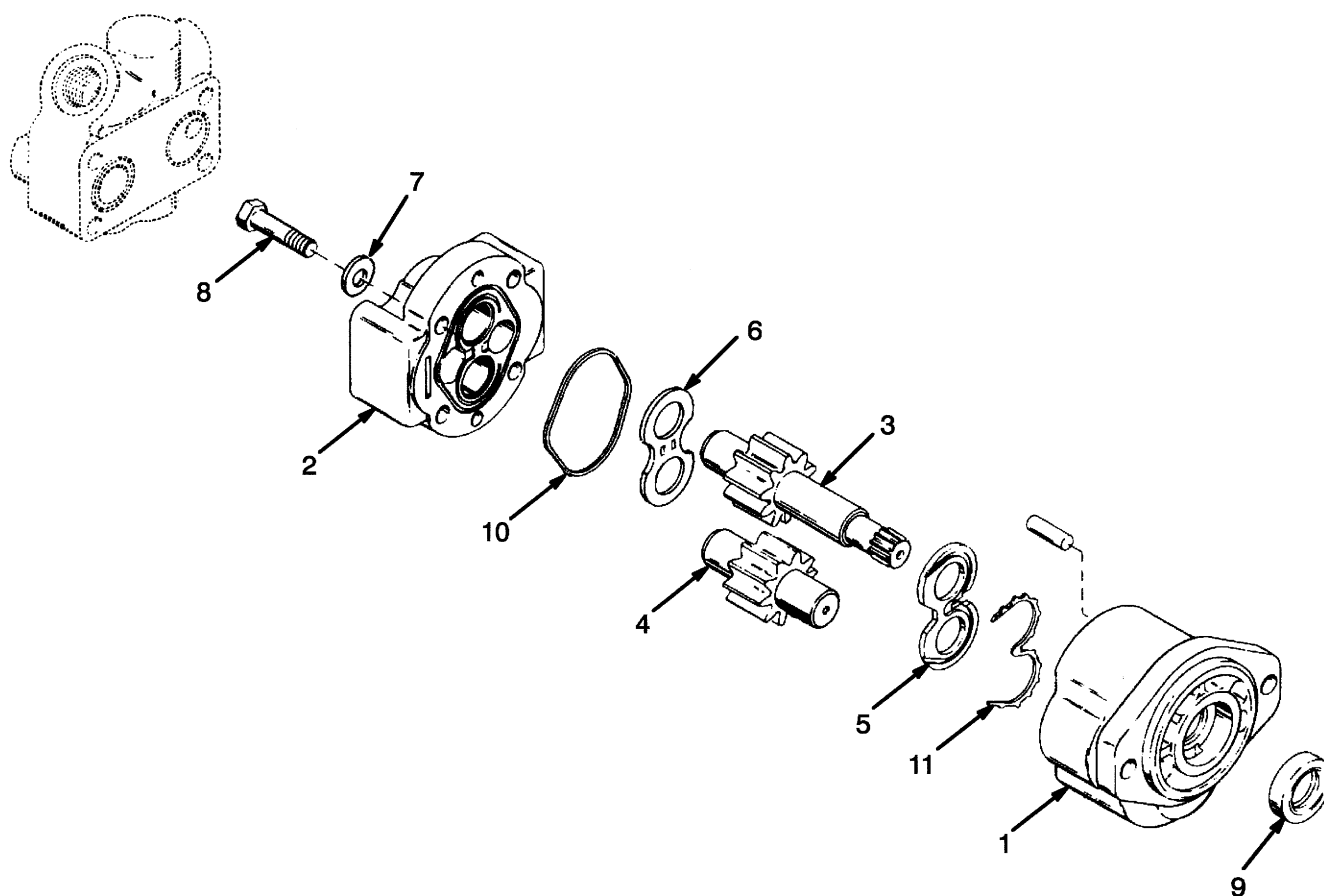
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	2036997	Pump	1	..
	2036998	Pump	..	1
1		Body	1	1
2	1458844	Flange	1	1
3	1465574	Gear Set	1	..
3	1465577	Gear Set	..	1
4	1328812	Bolt	4	4
5	293781	Lockwasher	4	4
6	1465572	Key	1	..
7	1465573	Flow Valve	1	1
8	321797	Spring	1	1
9	321792	Plug ("B")	2	2
10	16485	O-Ring	2	2
11	1465575	Plug	1	1
12		Body	1	1
13		Plunger	1	1
14		Snap Ring	1	1
15		Oil Seal	1	1
16		Seal	2	2
17		Seal	2	2
18		Bushing	4	4
	1458845	Kit-Seal	1	1
	1465574	Gear Set	1	1
	1465577	Gear Set	1	1

**PUMP ADAPTER (FIGURE 6-9)
DIESEL**

HP220068

ITEM	PART NO.	DESCRIPTION	QTY
	1462995	Adapter	1
1	360667	Bearing	1
2	1311602	Snap Ring	1
3	1465580	Gear	1
4	1311600	Bearing	1

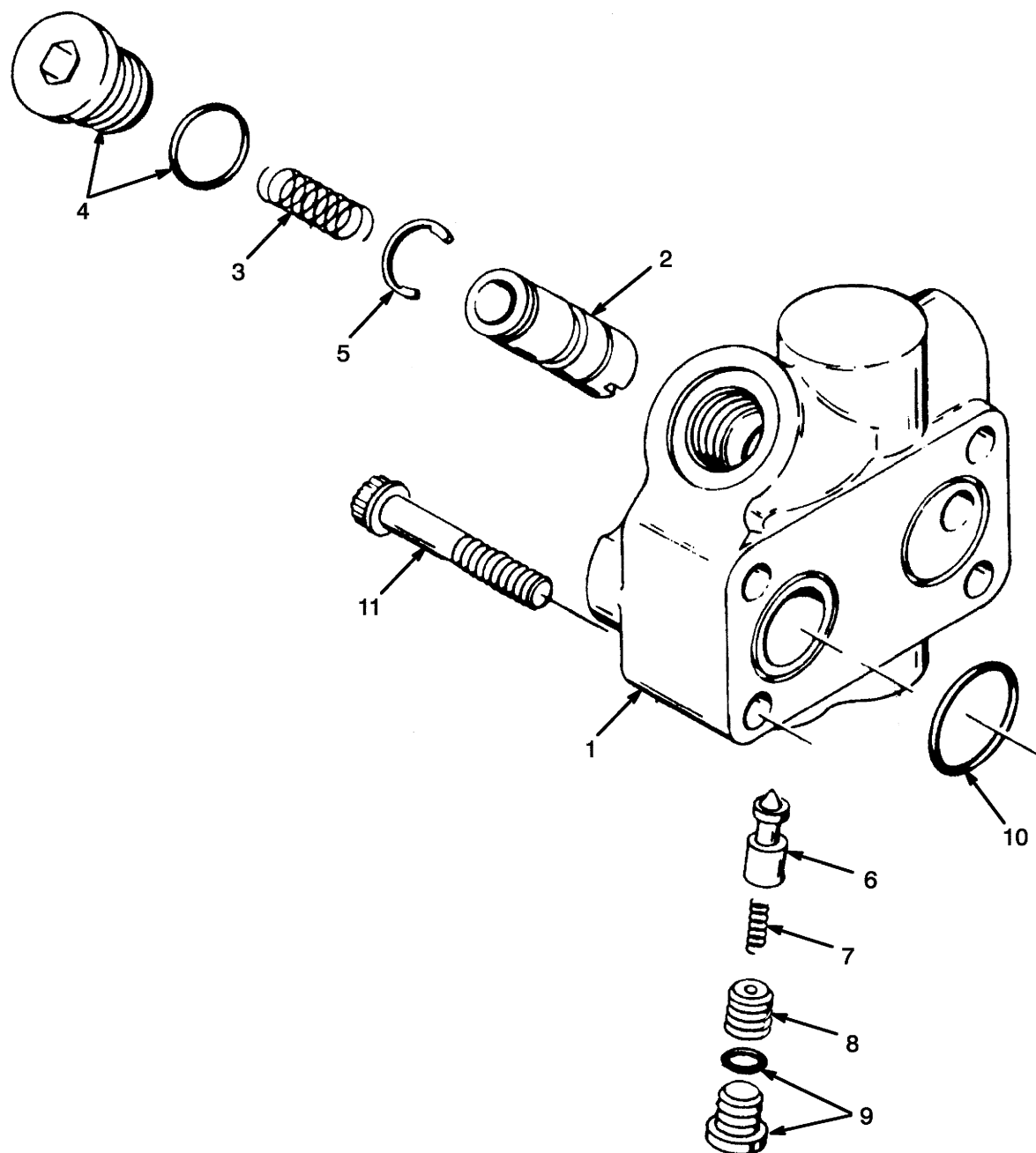
STEERING PUMP (FIGURE 6-10) HEAVY DUTY



HP220069

ITEM	PART NO.	DESCRIPTION	QTY
	1343201	Hydraulic Pump	1
		Pump Gear	1
1		Body (Front)	1
2	1333876	Cover (Rear)	1
3	1350629	Drive Gear	1
4	346541	Gear	1
5	346542	Wear Plate	1
6	346543	Thrust Plate	1
7		Washer	4
8		Screw	4
9		Seal	1
10		Square Ring	1
11		Seal	1
	346544	Kit-Seal	1

FLOW DIVIDER (FIGURE 6-11) HEAVY DUTY

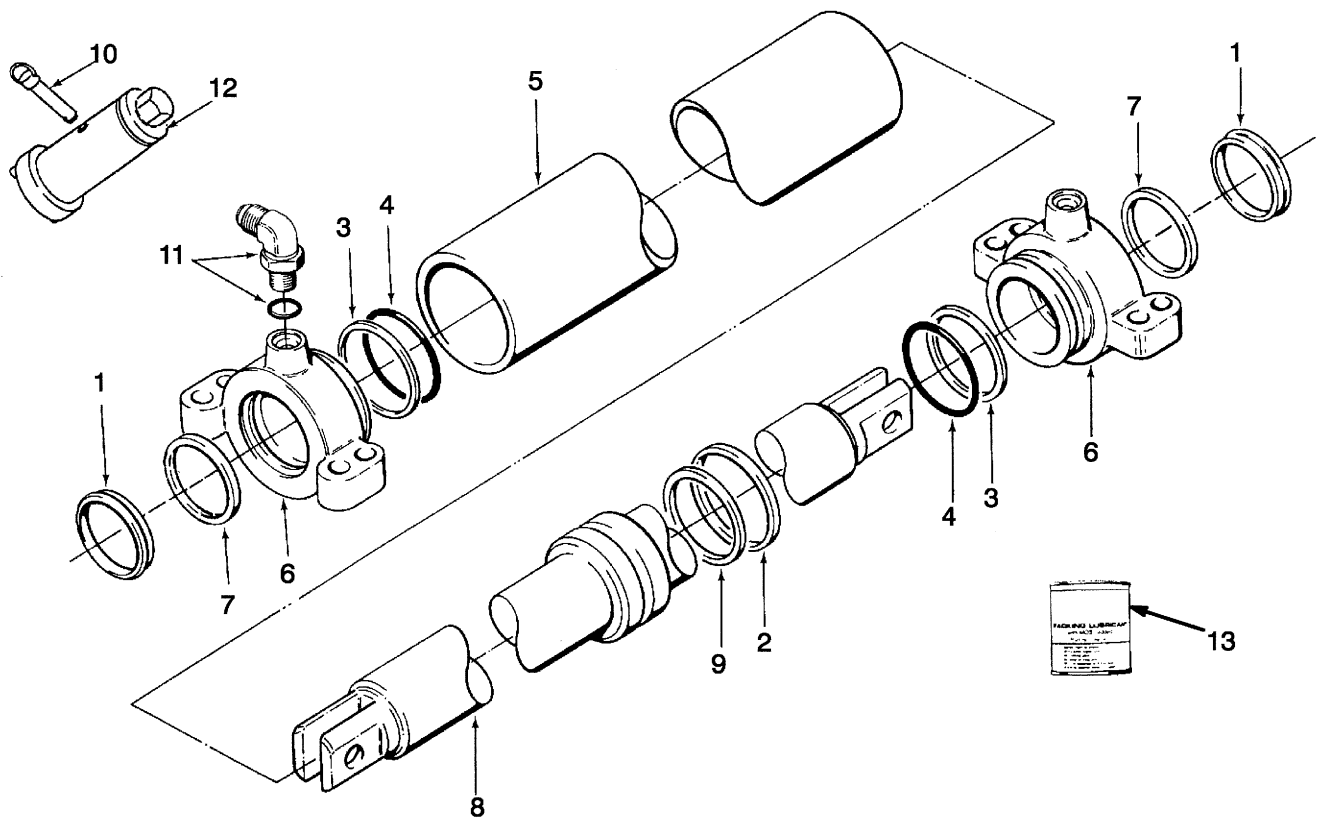


HP220070

**FLOW DIVIDER
HEAVY DUTY**

ITEM	PART NO.	DESCRIPTION	QTY
	1350630	Hydraulic Control Valve	1
1	1350631	Body	1
2	1350632	Piston	1
3	1342982	Spring	1
4	1342987	Plug	1
5	1342984	Retaining Ring	1
6	1342980	Poppet	1
7	1327983	Spring	1
8	1327981	Screw	1
9	1342986	Plug	1
10		O-Ring	2
11		Screw	4
	387482	Kit-Seal	

STEERING CYLINDER (FIGURE 6-12)



HP220071

STEERING CYLINDER

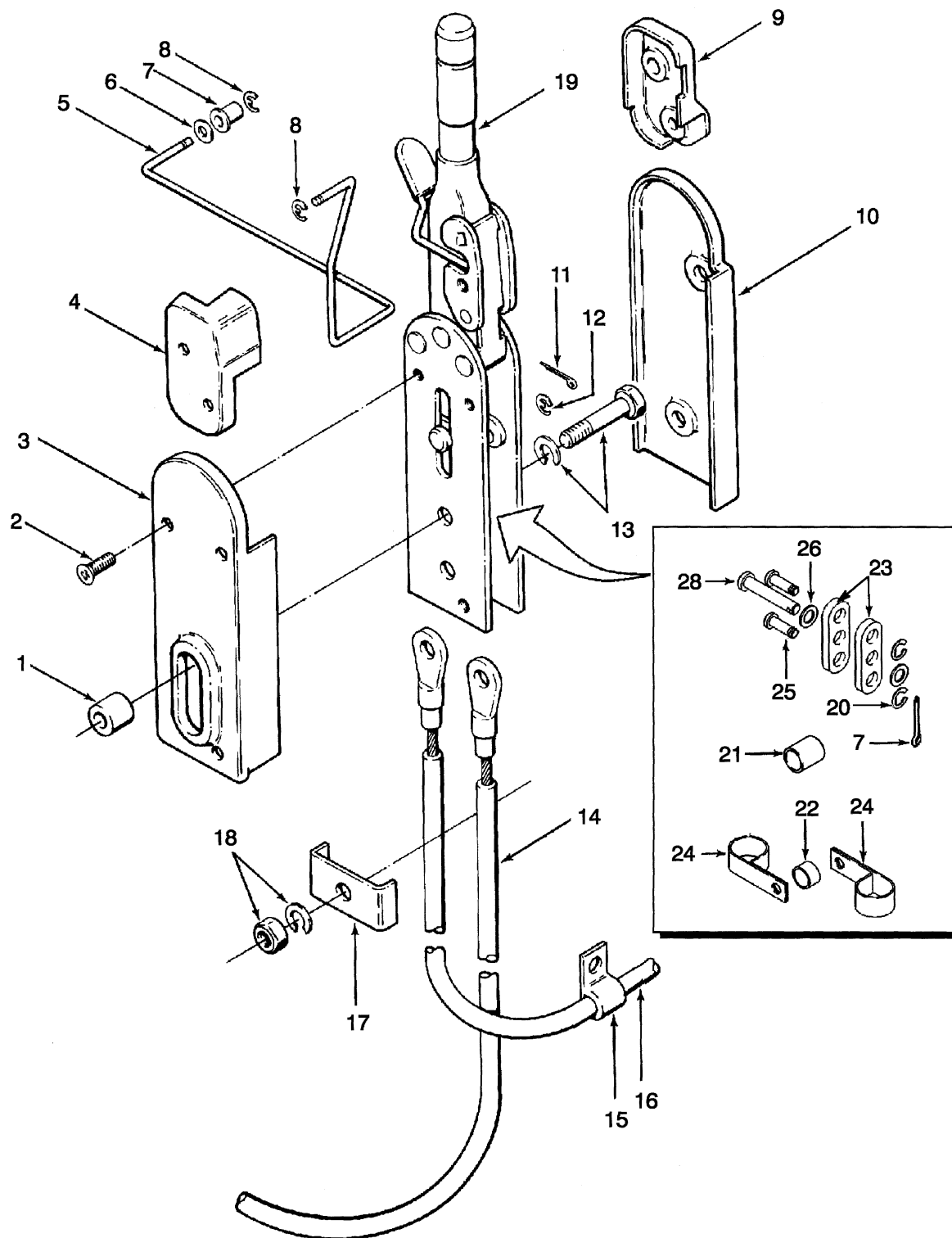
ITEM	PART NO.	DESCRIPTION	QTY
	344390	Steering Cylinder	1
1	203071	Rod Wiper	2
2	1380884	Piston Seal	1
3	154358	Back-Up Ring	2
4	133920	O-Ring	2
5	344391	Tube Wldmt-Cylinder	1
6	344395	End Cap	2
7	2032490	Seal	2
8	344392	Cylinder Rod	1
9	55146	O-Ring	1
10	332494	Pin	1
11	16558	Fitting	2
11	16483	O-Ring	1
12	332475	Tool	1
13	186061	Lubricant	AR
	332495	Kit-Tool	1
	1501408	Kit-Seal	1

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**SECTION 7
BRAKE SYSTEM**

DESCRIPTION	PAGE
ACTUATOR	7-18
BRAKE	
→ S/N F006A03184	7-12
S/N F006A03185 ↔ S/N F006A04792	7-14
S/N F006D01501 → S/N F006A04793 →	7-16
BRAKE LINES	7-4
BRAKE PEDAL LINKAGE	
OIL CLUTCH (→ S/N F006D03779)	7-6
POWERSHIFT	7-8
MASTER CYLINDER	7-20
PARK BRAKE	7-2

PARK BRAKE (FIGURE 7-1)



HP040063

PARK BRAKE

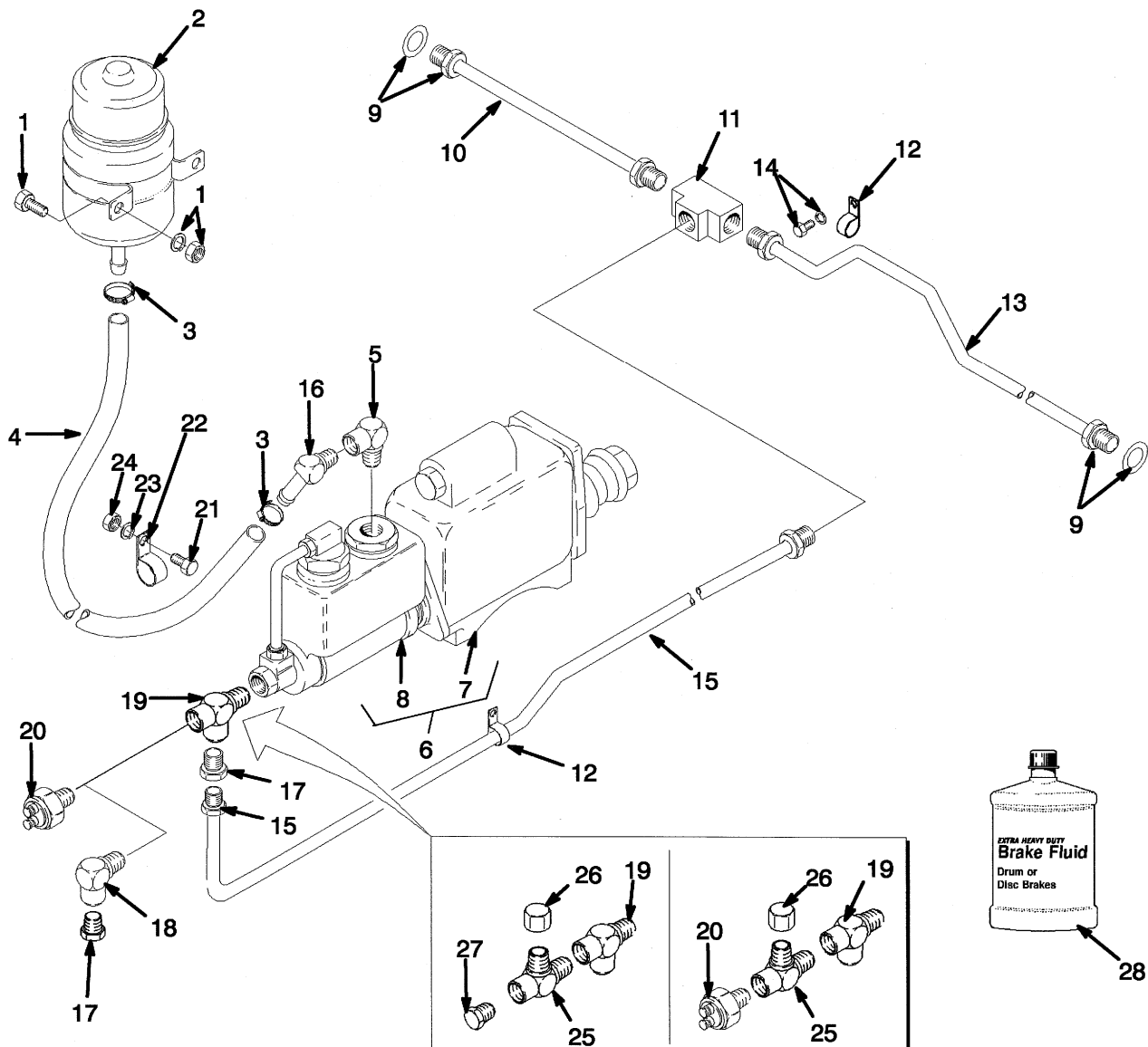
ITEM	PART NO.	DESCRIPTION	QTY
1	342962	Spacer	2
2	1328688	Screw	7
3	353013	Cover	1
4	353012	Cover	1
5	a 1322669	Link	1
6	a 15172	Washer	2
7	a 352605	Bearing	1
8	a 352575	E-Ring	2
9	353011	Cover	1
10	353009	Cover	1
11	15200	Cotter Pin	1
12	353206	Retaining Ring	2
13	136703	Capscrew	2
13	292681	Lockwasher	2
14	e 1460789	Parking Brake Cable (LH)	1
14	b 342959	Cable (LH)	1
15	b 136516	Clamp	1
15	d 128408	Clamp	1
15	f 387316	Clamp	1
16	e 1460790	Parking Brake Cable (RH)	1
16	b 342960	Cable (RH)	1
17	b 266525	Clamp	1
17	e 353497	Clamp	1
18	292681	Lockwasher	1
18	313828	Nut	2
19	c 352931	Lever	1
19	g 1494931	Parking Brake Lever	1
20	1331006	Snap Ring	2
21	1330998	Spacer	1
22	1330999	Spacer	1
23	1331001	Link	2
24	1331002	Clamp	2
25	1335467	Pin	2
26	1335468	Washer	2
27	15200	Cotter Pin	1
28	1333572	Pin	1

FOOTNOTES:

a Monotrol Pedal
b → S/N F006D04941
c → S/N F006D06499
d S/N F006D04942 ↔ S/N F006D06397

e S/N F006D04942 →
f S/N F006D06398 →
g S/N F006D06500 →

BRAKE LINES (FIGURE 7-2)



HP040064

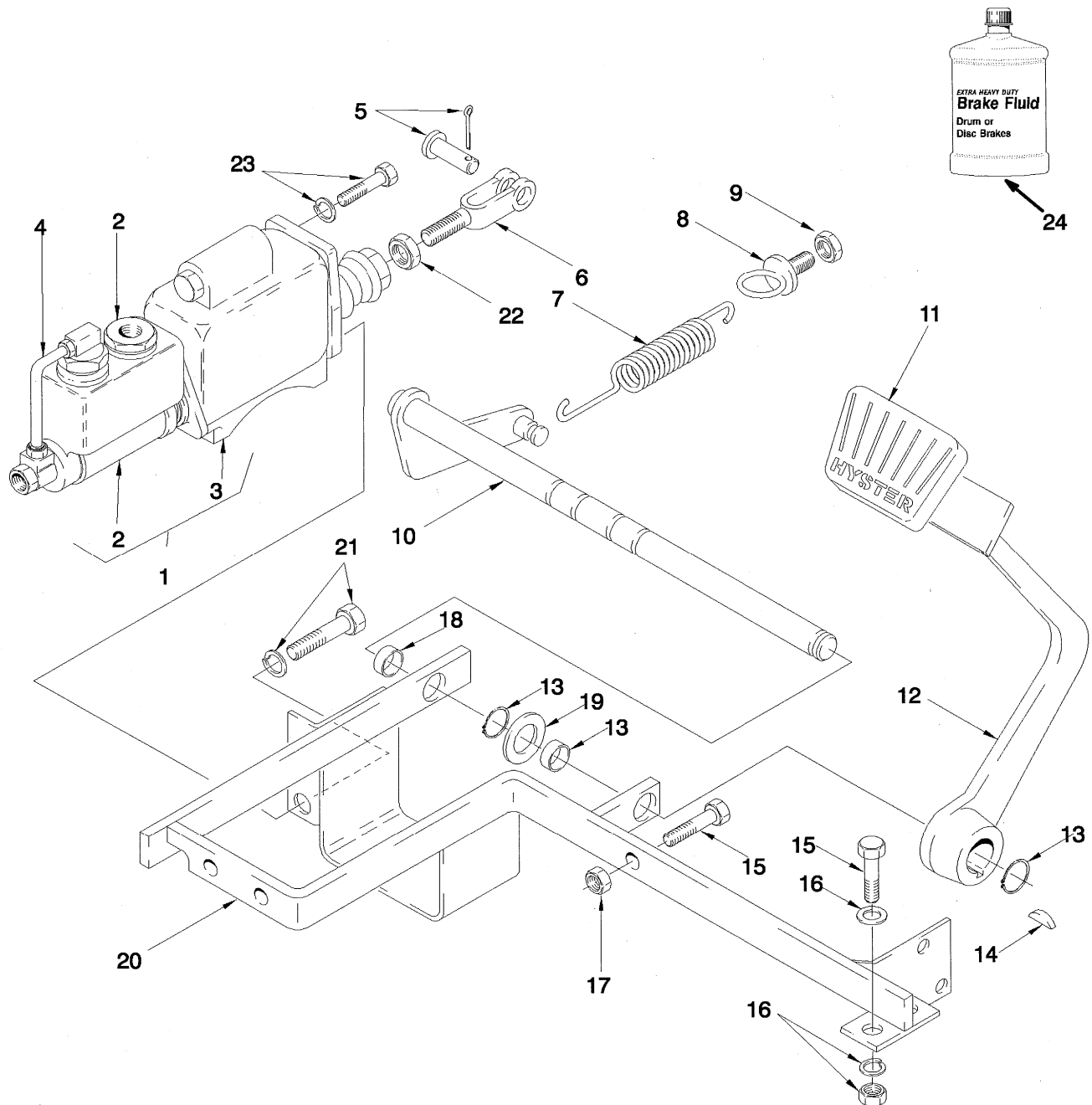
BRAKE LINES

ITEM	PART NO.	DESCRIPTION	QTY
1	136687	Nut	2
1	292501	Capscrew	2
1	292680	Washer	2
2	ef 1489805	Reservoir	1
2	1491824	Cap	1
2	d 309095	Reservoir	1
2	317741	Clamp	1
2	317741	Clamp	1
2	317742	Cap	1
2	317743	Filter	1
3	353311	Clamp	2
4	340206	Hose	1
5	16151	Fitting	1
6	1335187	Brake Valve	1
7	379238	Brake Booster (☞ Figure 7-8).....	1
8	1347574	Master Cylinder (☞ Figure 7-9).....	1
9	26801	Fitting	2
9	29344	Gasket	2
10	372014	Tube Assy (LH)	1
11	16195	Fitting	1
12	124359	Clamp	2
13	372015	Tube Assy (RH)	1
14	287851	Capscrew	1
14	292681	Lockwasher	1
15	377620	Tube Assy	1
16	222476	Fitting	1
17	16115	Fitting	1
18	b 16151	Fitting	1
19	ac 16186	Fitting	1
20	cd 196506	Pressure Switch	1
20	cd 342273	Sleeve	1
20	cef 387867	Pressure Switch	1
21	136681	Capscrew	1
22	136516	Clamp	1
23	292681	Lockwasher	1
24	239503	Nut	1
25	a 16125	Fitting	1
26	a 281700	Fitting	1
27	a 14349	Fitting (Pipe Plug)	1
28	c 16151	Fitting	1
28	c 14349	Fitting (Pipe Plug)	1

FOOTNOTES:

- | | |
|--|---------------------------|
| a Brake Test Fitting (Optional) | d → S/N F006D03790 |
| b Oil Clutch (Powershift Forward/Reverse Lever) | e S/N F006A03791 → |
| c Powershift (Monotrol Pedal) | f S/N F006D01501 → |

BRAKE PEDAL LINKAGE (FIGURE 7-3) OIL CLUTCH (→ S/N F006D03779)

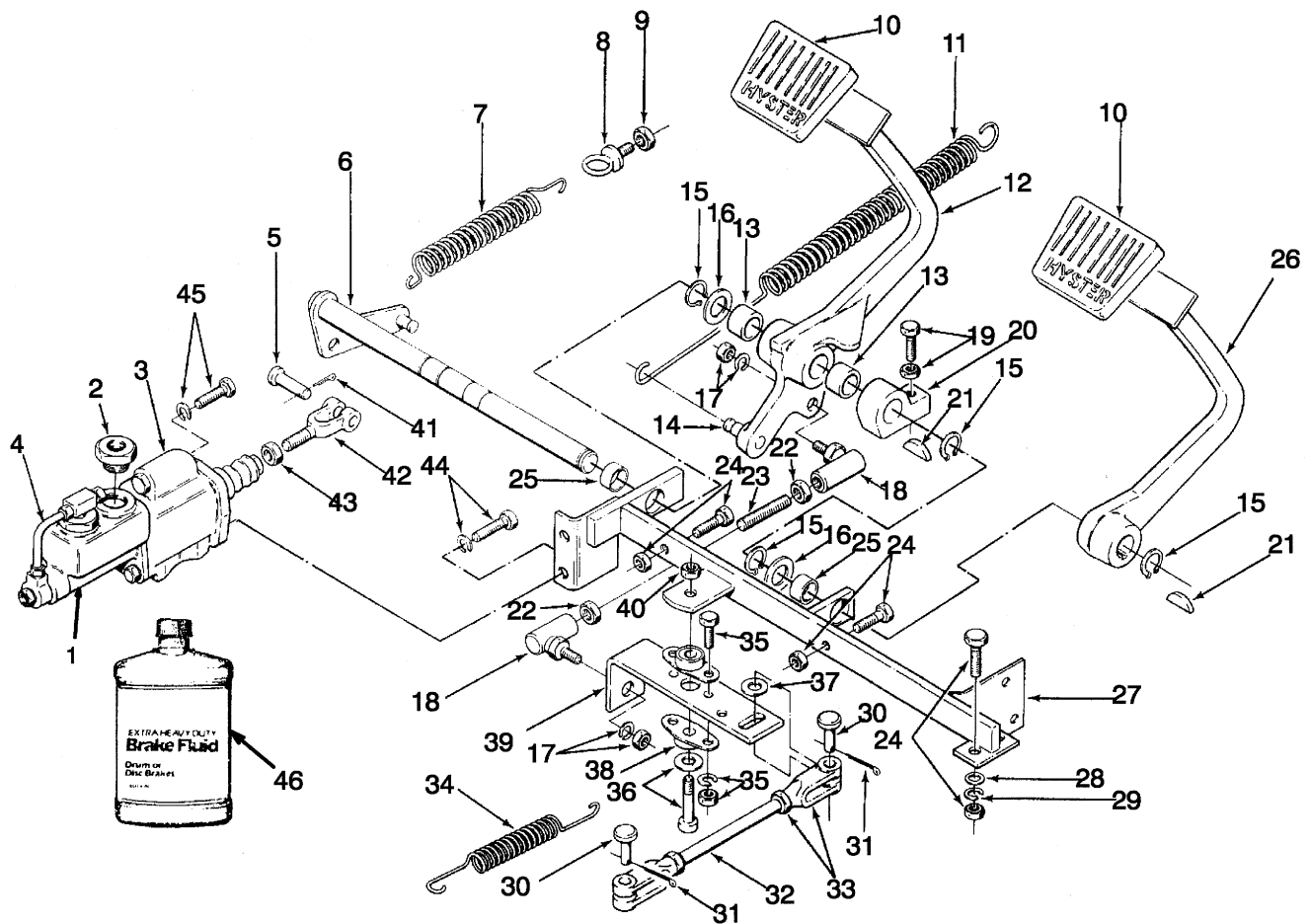


HP040065

BRAKE PEDAL LINKAGE
OIL CLUTCH (→ S/N F006D03779)

ITEM	PART NO.	DESCRIPTION	QTY
1	1335187	Brake Valve	1
2	1347574	Master Cylinder (☞Figure 7-9).....	1
2	353835	Cap	1
3	379238	Brake Booster (☞Figure 7-8).....	1
4	278060	Tube Assy	1
5	15223	Cotter Pin	1
5	153	Pin	1
6	340212	Rod End	1
7	372021	Spring	1
8	295580	Eyebolt	1
9	221354	Locknut	1
10	372019	Shaft	1
11	114496	Pad	1
12	344256	Brake Pedal	1
13	58908	Snap Ring	2
14	17253	Woodruff Key	1
15	292515	Capscrew	3
16	136692	Nut	2
16	388049		
	292682	Lockwasher	2
16	320159	Washer	2
17	136692	Nut	1
18	270632	Bushing	2
19	247747	Washer	1
20	344269	Bracket	1
21	15157	Lockwasher	2
21	18559	Capscrew	2
22	15028	Nut	1
23	15157	Lockwasher	2
23	18558	Capscrew	2
24	26758	Brake Fluid (12 oz.)	AR
24	357956	Brake Fluid (1 gallon)	AR
24	357973	Brake Fluid (1 qt.)	AR

BRAKE PEDAL LINKAGE (FIGURE 7-4) POWERSHIFT



HP040066

**BRAKE PEDAL LINKAGE
POWERSHIFT**

ITEM	PART NO.	DESCRIPTION	QTY
1	1335187	Brake Valve	1
1	1347574	Master Cylinder (☞Figure 7-9).....	1
2	353835	Cap	1
3	379238	Brake Booster (☞Figure 7-8).....	1
4	278060	Tube Assy	1
5	153	Pin	1
6	372019	Shaft	1
7	372020	Spring	1
8	295580	Eyebolt	1
9	221354	Locknut	1
10	114496	Pad	2
11	340214	Spring	1
12	357301	Inching Pedal	1
13	270632	Bushing	2
14	227070	Pin	1
15	58908	Snap Ring	4
16	247747	Washer	2
17	15026	Nut	2
17	15156	Lockwasher	2
18	119758	Ball Joint	2
19	15028	Nut	1
19	37562	Capscrew	1
20	247748	Crank	1
21	17253	Woodruff Key	2
22	15026	Nut	2
23	340215	Link	1
24	136692	Nut	4
24	292515	Capscrew	4
25	270632	Bushing	2
26	344256	Brake Pedal	1
27	342931	Bracket Wldmt	1
28	320159	Washer	2
29	388049		
	292682	Lockwasher	2
30	139	Pin	2
31	15211	Cotter Pin	2
32	357278	Link	1
33	138	Rod End	2
33	15025	Nut	2
34	309704	Spring	1
35	136687	Nut	2
35	292501	Capscrew	2
35	292680	Washer	2
36	320161	Washer	1
36	340213	Capscrew	1
37	320157	Washer	1
38	313860	Flange	2
39	340210	Plate	1
40	15086	Nut	1
41	15223	Cotter Pin	1

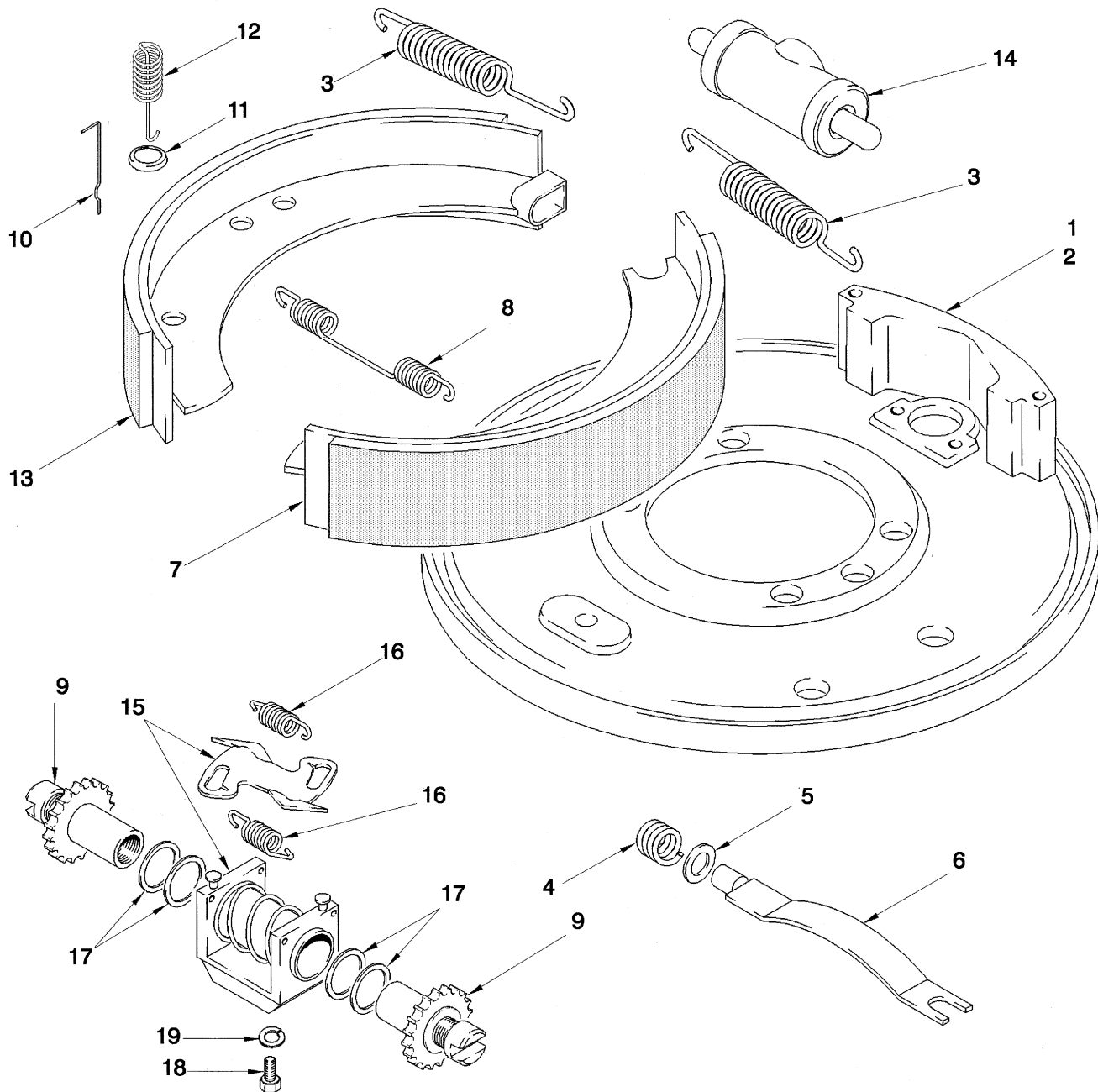
**BRAKE PEDAL LINKAGE
POWERSHIFT**

ITEM	PART NO.	DESCRIPTION	QTY
42	340212	Rod End	1
43	15028	Nut	1
44	15157	Lockwasher	2
44	18559	Capscrew	2
45	15157	Lockwasher	2
45	18558	Capscrew	2
46	26758	Brake Fluid (12 oz.)	AR
46	357956	Brake Fluid (1 gallon)	AR
46	357973	Brake Fluid (1 qt.)	AR

NOTES

[illegible]

BRAKE (FIGURE 7-5) (→ S/N F006A03184)

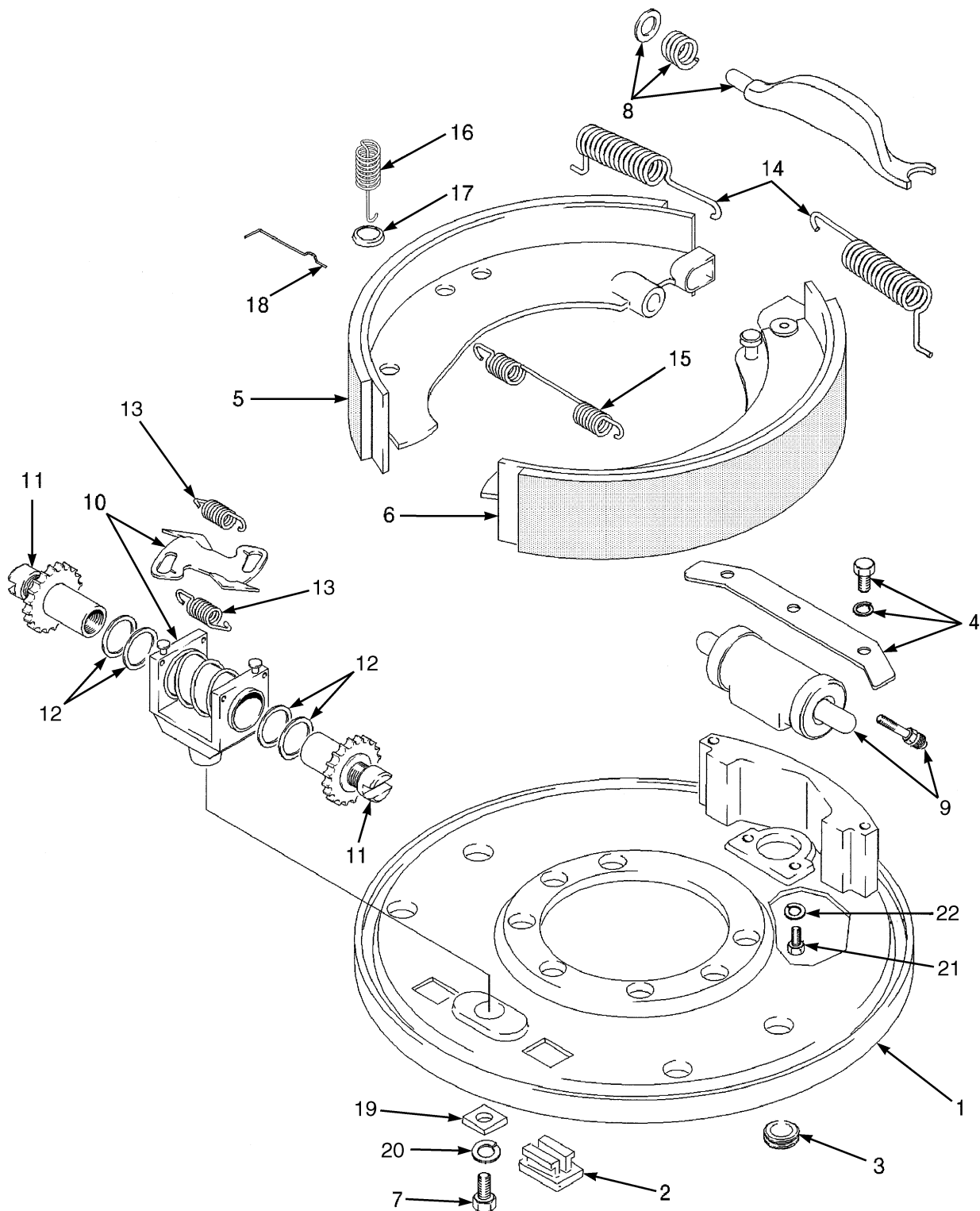


HP040067

BRAKE
(→ S/N F006A03184)**KEY:****A:** Right Hand**B:** Left Hand

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	335798	Brake Assembly (LH)	..	1
	335797	Brake Assembly (RH)	1	..
1		Plate	1	1
2	374535	Plug	2	..
2	374548	Plug	..	2
3	374543	Spring	2	2
4	374540	Spring	1	1
5	374541	Washer	1	1
6		Strut	1	1
7	1321839	Brake Shoe (LH)	..	1
7	1321843	Brake Shoe (RH)	1	..
8	374544	Spring	1	1
9	1300493	Kit-Adjuster	1	1
10	374547	Retainer	2	2
11	374546	Lockplate	2	2
12	374545	Spring	2	2
13	1321838	Brake Shoe (Common)	1	1
14	1300296	Kit-Repair Wheel Cylinder	1	1
14	1312904	Wheel Cylinder	1	1
14	385669	Bleeder Screw	1	1
15	1300917	Adjuster	1	1
16	374542	Spring	2	2
17	1300494	Washer (0.01 in.)	AR	AR
17	1300495	Washer (0.02 in.)	AR	AR
17	1300496	Washer (0.04 in.)	AR	AR
18	293664	Capscrew	1	1
19	1345903	Washer	1	1

BRAKE (FIGURE 7-6) (S/N F006A03185 ↔ S/N F006A04792)



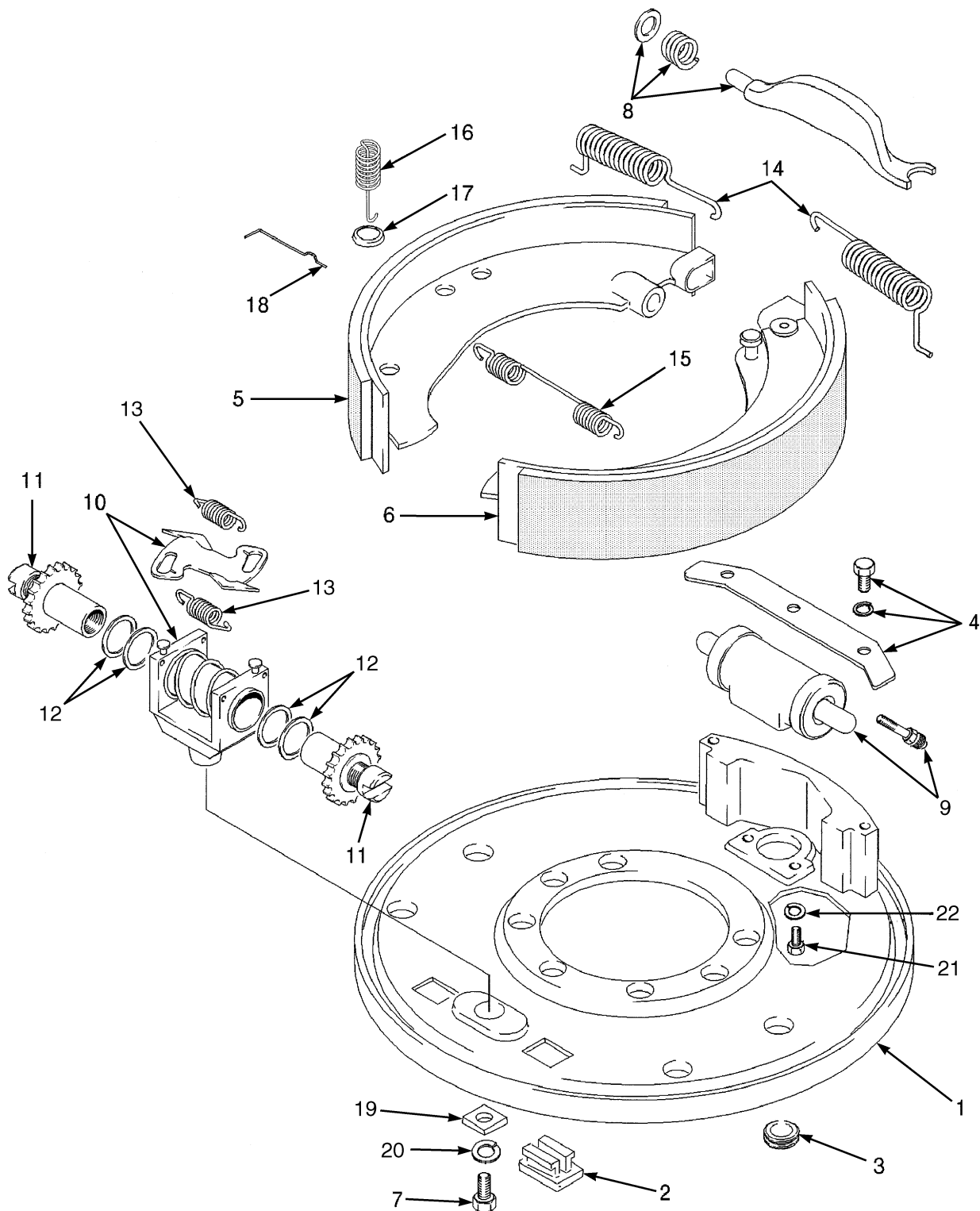
HP040068

BRAKE
(S/N F006A03185 ↔ S/N F006A04792)**KEY:****A:** Right Hand**B:** Left Hand

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1310593	Brake Assembly	1	..
	1310594	Brake Assembly	..	1
1	1323995	Spider	1	..
1	1324002	Spider	..	1
2	374535	Plug	2	2
3	374548	Plug (Inspection)	2	2
4	1321836	Screw	2	2
4	1321837	Spring Washer	2	2
4	1323996	Plate	1	1
5	374536	Brake Shoe (Common)	1	1
6	374539	Brake Shoe	1	..
6	374549	Brake Shoe	..	1
7	293664	Capscrew	1	1
8	1323998	Bracket	1	1
8	374540	Spring	1	1
8	374541	Washer	1	1
9	1312904	Wheel Cylinder	1	1
9	a 1321373	Kit-Repair Wheel Cylinder	1	1
9	1371220	Screw	1	1
10	1357370	Adjuster	1	1
11	1323999	Screw	2	2
12	1300494	Washer (0.01 in.)	AR	AR
12	1300495	Washer (0.02 in.)	AR	AR
12	1300496	Washer (0.04 in.)	AR	AR
13	374542	Spring	2	2
14	374543	Spring (Return)	2	2
15	1520835	Spring	1	1
16	374545	Spring	2	2
17	374546	Lockplate	2	2
18	374547	Retainer	2	2
19	1345903	Washer	1	1
20	1321842	Spring Washer	1	1
21	1321840	Screw	2	2
22	1321841	Spring	2	2

FOOTNOTES:**a** Includes Cups, Boots, Pistons and Pushrods

BRAKE (FIGURE 7-7) (S/N F006D01501 →) (S/N F006A04793 →)



HP040068

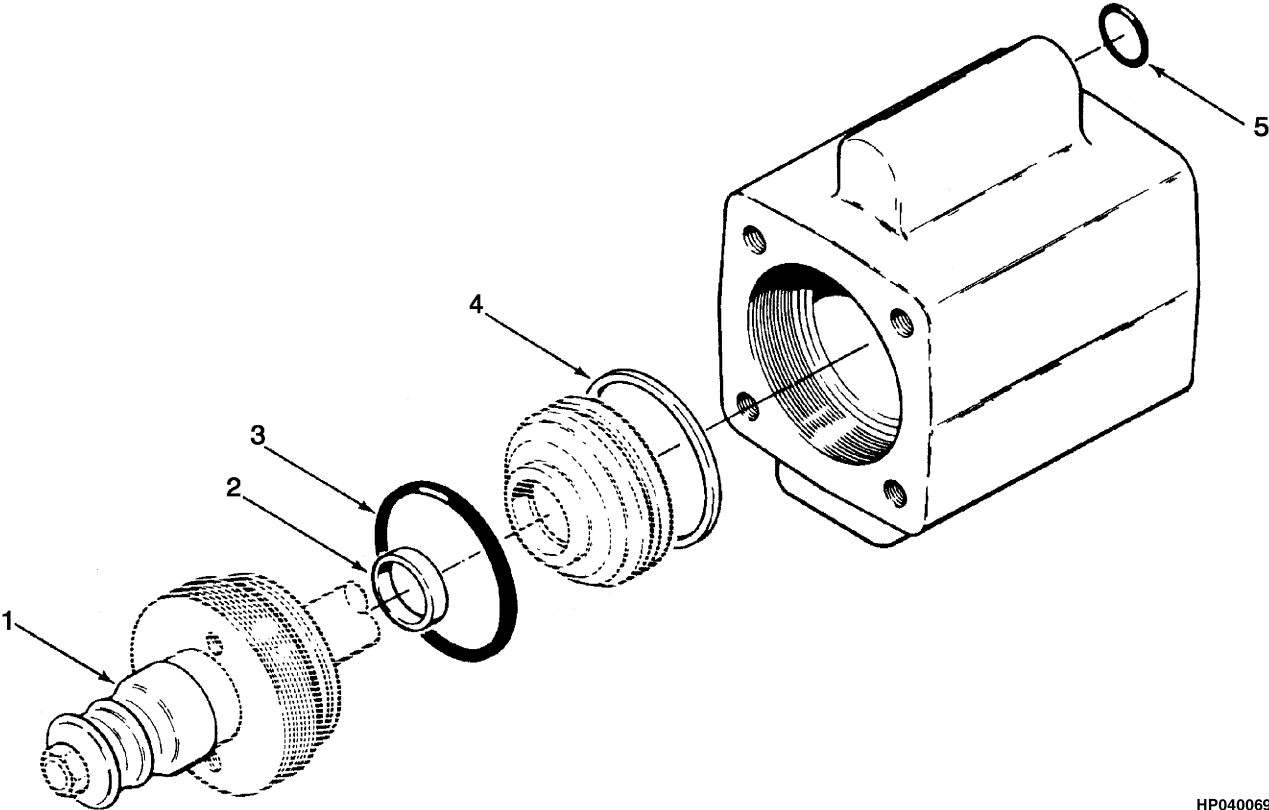
BRAKE (S/N F006D01501 →) (S/N F006A04793 →)

KEY:**A:** Right Hand**B:** Left Hand

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1327565	Brake Assembly	1	..
	1327566	Brake Assembly	..	1
1	1323995	Spider	1	..
1	1324002	Spider	..	1
2	374535	Plug	2	2
3	374548	Plug (Inspection)	2	2
4	1321836	Screw	2	2
4	1321837	Spring Washer	2	2
4	1323996	Plate	1	1
5	1321838	Brake Shoe (Common)	1	1
6	1321839	Brake Shoe	..	1
6	1321843	Brake Shoe	1	..
7	293664	Capscrew	1	1
8	1323998	Bracket	1	1
8	374540	Spring	1	1
8	374541	Washer	1	1
9	1312904	Wheel Cylinder	1	1
9	a 1321373	Kit-Repair Wheel Cylinder	1	1
9	1371220	Screw	1	1
9	1321840	Screw	2	2
9	1321841	Spring	2	2
10	1357370	Adjuster	1	1
11	1323999	Screw	2	2
12	1300494	Washer (0.01 in.)	AR	AR
12	1300495	Washer (0.02 in.)	AR	AR
12	1300496	Washer (0.04 in.)	AR	AR
13	374542	Spring	2	2
14	374543	Spring (Return)	2	2
15	1520835	Spring	1	1
16	374545	Spring	2	2
17	374546	Lockplate	2	2
18	374547	Retainer	2	2
19	1345903	Washer	1	1
20	1321842	Spring Washer	1	1
21	1321840	Screw	2	2
22	1321841	Spring	2	2

FOOTNOTES:**a** Includes Cups, Boots, Pistons and Pushrods

ACTUATOR (FIGURE 7-8)

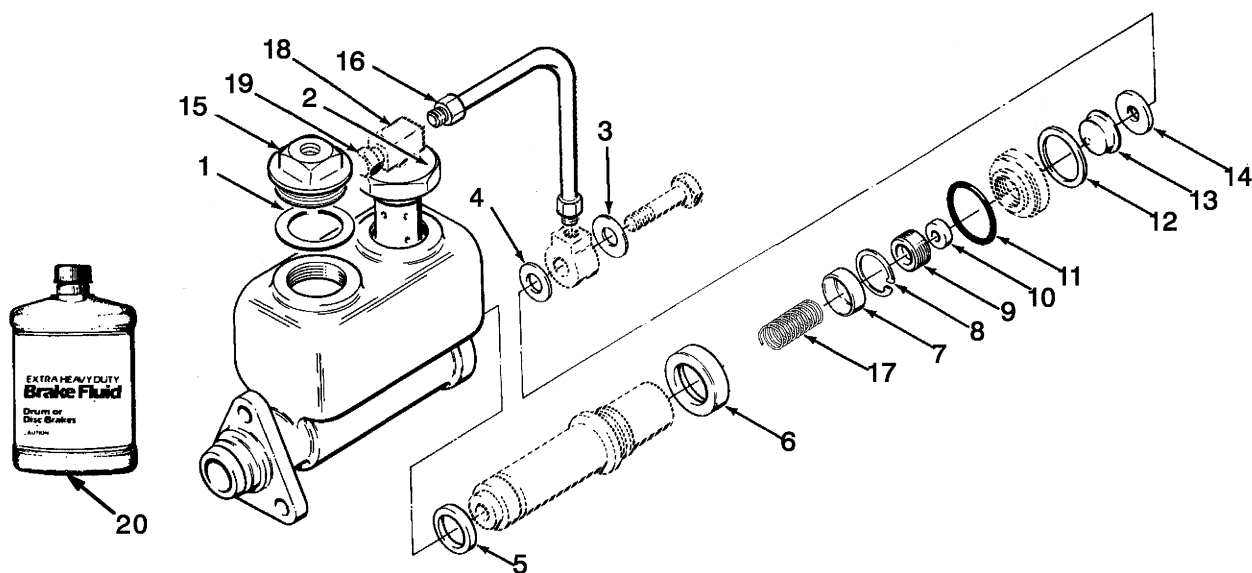


HP040069

ITEM	PART NO.	DESCRIPTION	QTY
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ITEM	PART NO.	DESCRIPTION	QTY
	379238	Brake Booster	1
1		Cover	1
2		Cup	2
3		O-Ring	1
4		Piston Ring	1
5		O-Ring	1
	319144	Kit-Repair Brake Booster	1

MASTER CYLINDER (FIGURE 7-9)



HP040070

MASTER CYLINDER

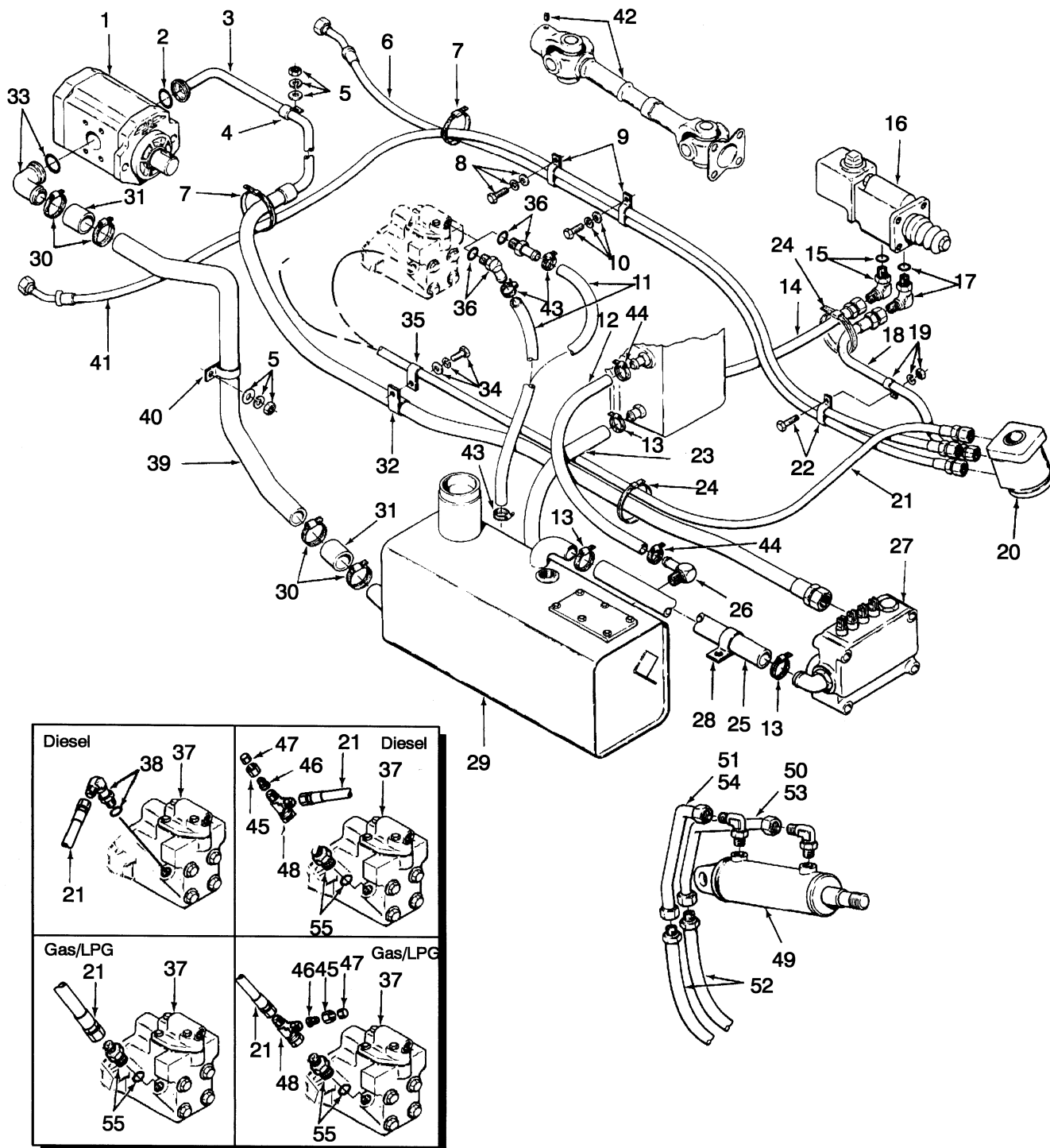
ITEM	PART NO.	DESCRIPTION	QTY
	1347574	Master Cylinder	1
1		Gasket	1
2	319148	Relief Valve	1
3		Gasket	1
4		Gasket	1
5		Cup	1
6		Cup	1
7		Cup	1
8		Retaining Ring	1
9		Retainer	1
10		Seat	1
11		O-Ring	1
12		Seal	1
13		Check Valve	1
14		Valve Seat	1
15	278063	Plug	1
16	278060	Tube Assy	1
17	70226	Spring	1
18	14900	Fitting	1
19	78029	Fitting	1
20	26758	Brake Fluid (12 oz.)	AR
20	357956	Brake Fluid (1 gallon)	AR
20	357973	Brake Fluid (1 qt.)	AR
	1347573	Kit-Repair Master Cylinder	1

[illegible]

SECTION 8 HYDRAULIC SYSTEM

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HYDRAULIC SUPPLY AND RETURN (FIGURE 8-1) OIL CLUTCH (→ S/N F006D03779)



HP150127

HYDRAULIC SUPPLY AND RETURN
OIL CLUTCH (→ S/N F006D03779)**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	h 1367711	Hydraulic Pump (☞Figure 8-21).....	1	1
1	c 340219	Hydraulic Pump (☞Figure 8-21).....	1	1
2	15866	O-Ring	1	1
3	350079	Tube Assy	1	1
4	173247	Clamp	1	1
5	239503	Nut	2	2
5	292681	Lockwasher	2	2
5	320157	Washer	2	2
6	fg 1311014	Hose Assy	1	1
6	b 350095	Hose Assy	1	1
7	129563	Strap Clamp	2	2
8	136749	Screw	1	1
8	292681	Lockwasher	1	1
8	320157	Washer	1	1
9	129684	Clamp	3	3
10	18496	Capscrew	2	2
10	292681	Lockwasher	2	2
10	320157	Washer	2	2
11	114371	Hose	1	..
11	241975	Hose	..	1
12	985338	Hose	1	1
13	369804	Clamp	4	4
14	117580	Hose Assy	1	1
15	17224	Fitting	1	1
15	16485	O-Ring	1	1
16	379238	Brake Booster (☞Figure 7-8).....	1	1
17	b 17224	Fitting	1	1
17	fg 222400	Fitting	1	1
17	16485	O-Ring	1	1
18	fg 1312742	Hose Assy	1	1
18	b 368240	Hose Assy	1	1
19	198678	Clamp	1	1
19	239503	Nut	1	1
19	292681	Lockwasher	1	1
20	357288	Steering Pump (☞Figure 6-4).....	1	1
21	fg 1312740	Hose Assy	..	1
21	fg 1312741	Hose Assy	1	..
21	b 155464	Hose Assy	1	..
21	b 300596	Hose Assy	..	1
22	129684	Clamp	1	1
22	136749	Screw	1	1
23	111895	Hose	1	1
24	129563	Strap Clamp	3	1
25	96481	Hose	1	1
26	17174	Fitting	1	1

HYDRAULIC SUPPLY AND RETURN
OIL CLUTCH (→ S/N F006D03779)

KEY:

A: Gasoline and LPG

B: Diesel

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
27	a 350062	Hydraulic Control Valve (☞Figure 8-11).....	1	1
27	350063	Valve (☞Figure 8-13).....	1	1
27	350064	Hydraulic Control Valve (☞Figure 8-15).....	1	1
28	313221	Clamp	1	1
29	344331	Hydraulic Tank (☞Figure 8-6).....	1	1
30	119236	Clamp	4	4
31	173685	Collar	2	2
32	144067	Clamp	2	2
33	222588	Fitting	1	1
33	4028986			
	92861	O-Ring	1	1
34	18496	Capscrew	..	2
34	292681	Lockwasher	2	2
34	320157	Washer	2	2
35	198678	Clamp	..	2
36	222505	Fitting	..	1
36	222505	Fitting	1	..
36	16486	O-Ring	..	1
36	16486	O-Ring	1	..
37		Steering Pump (☞Figure 8-8).....	1	1
38	b 16541	Fitting	..	1
38	b 17167	Fitting	1	..
38	16484	O-Ring	..	1
38	16484	O-Ring	1	..
39	350098	Tube Assy	1	1
39	eg 377346	Tube Assy (Suction)	1	1
40	181899	Clamp	1	1
41	fg 1311015	Hose Assy	1	1
41	b 350096	Hose Assy	1	1
42	350055	Drive Shaft (☞Figure 8-23).....	1	1
42	340218	Drive Shaft (☞Figure 8-23).....	1	1
43	130845	Clamp	2	2
44	166857	Clamp	2	2
45	fg 17777	Fitting	1	1
46	fg 17319	Fitting	1	1
47	fg 16923	Nut	1	1
48	fg 17062	Fitting	1	1
48	16484	O-Ring	1	1
49	a 340248	Tilt Cylinder (☞Figure 8-22).....	2	2
49	dg 2037392	Tilt Cylinder (☞Figure 8-22).....	2	2
50	340257	Tube Assy (LH Front) (LH)	1	1
51	340258	Tube Assy (LH Rear) (LH)	1	1
52	340259	Hose Assy	4	4
53	357252	Tube Assy (RH Front) (RH)	1	1
54	357253	Tube Assy (RH Rear) (RH)	1	1

HYDRAULIC SUPPLY AND RETURN
OIL CLUTCH (→ S/N F006D03779)**KEY:****A: Gasoline and LPG****B: Diesel**

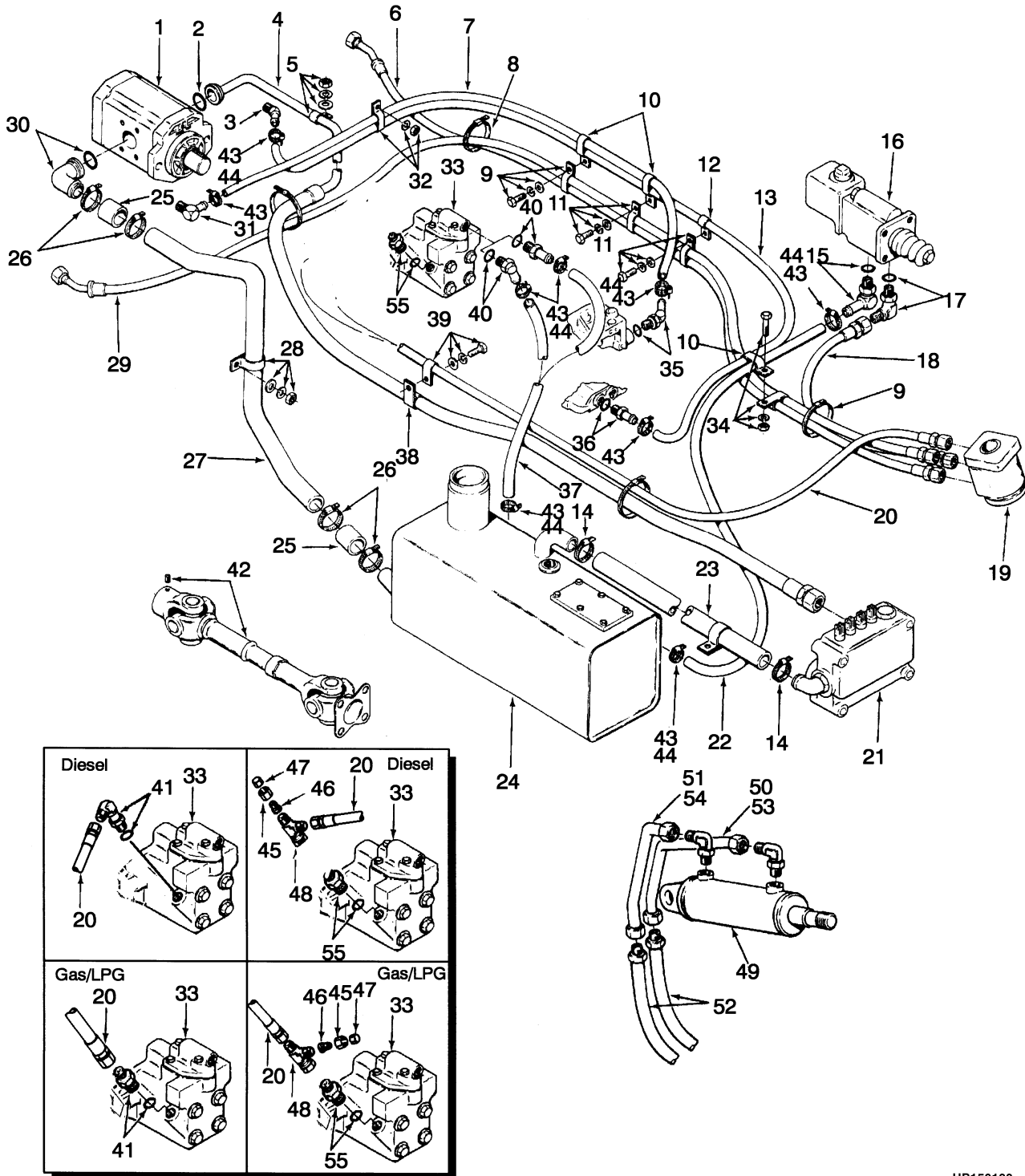
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
55	16541	Fitting	1	1
55	16484	O-Ring	1	1
	2036997	Pump (Gasoline and LPG)	1	1
	2036998	Pump (Diesel)	1	1

FOOTNOTES:

a → S/N F006A01900
b → S/N F006A03790
c → S/N F006D01736
d S/N F006A01901 →

e S/N F006A03040 →
f S/N F006A03791 →
g S/N F006D01501 →
h S/N F006D01737 →

HYDRAULIC SUPPLY AND RETURN (FIGURE 8-2) POWERSHIFT (→ S/N F006D05389)



HP150128

HYDRAULIC SUPPLY AND RETURN
POWERSHIFT (→ S/N F006D05389)**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	j 1367711	Hydraulic Pump (☞Figure 8-21).....	1	1
1	d 340219	Hydraulic Pump (☞Figure 8-21).....	1	1
2	15866	O-Ring	1	1
3	c 127852	Fitting	1	1
3	hi 66997	Fitting	1	1
4	350079	Tube Assy	1	1
5	173247	Clamp	1	1
5	239503	Nut	1	1
5	292681	Lockwasher	1	1
5	320157	Washer	1	1
6	gi 1311014	Hose Assy	1	1
6	b 350095	Hose Assy	1	1
7	hi 1326651	Hose Assy	1	1
7	c 368242	Hose	1	1
8	129563	Strap Clamp	4	4
9	129684	Clamp	1	1
9	136749	Screw	1	1
9	292681	Lockwasher	1	1
9	320157	Washer	1	1
10	251994	Clamp	3	3
11	129684	Clamp	2	2
11	15055	Nut (LPG Only)	2	..
11	18497	Capscrew	2	2
11	292681	Lockwasher	2	2
11	320157	Washer	2	2
12	198678	Clamp	1	1
13	hi 1326927	Hose Assy	1	1
13	c 350097	Hose	1	1
14	369804	Clamp	2	2
15	222512	Fitting	1	1
15	16485	O-Ring	1	1
16	379238	Brake Booster (☞Figure 7-8).....	1	1
17	b 17224	Fitting	1	1
17	16485	O-Ring	1	1
17	gi 222400	Fitting	1	1
17	16485	O-Ring	1	1
18	gi 1312742	Hose Assy	1	1
18	b 368240	Hose Assy	1	1
19	357288	Steering Pump (☞Figure 6-4).....	1	1
20	gi 1312740	Hose Assy	..	1
20	gi 1312741	Hose Assy	1	..
20	b 155464	Hose Assy	1	..
20	b 300596	Hose Assy	..	1
21	a 350062	Hydraulic Control Valve (☞Figure 8-11).....	1	1
21	350063	Valve (☞Figure 8-13).....	1	1

HYDRAULIC SUPPLY AND RETURN
POWERSHIFT (→ S/N F006D05389)

KEY:

A: Gasoline and LPG

B: Diesel

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
21	350064	Hydraulic Control Valve (☞Figure 8-15).....	1	1
22	392649	Hose	1	1
23	96481	Hose	1	1
24	350071	Hydraulic Tank (☞Figure 8-6).....	1	1
25	173685	Collar	2	2
26	119236	Clamp	4	4
27	350098	Tube Assy	1	1
27	fi 377346	Tube Assy (Suction)	1	1
28	181899	Clamp	1	1
28	239503	Nut	1	1
28	292681	Lockwasher	1	1
28	320157	Washer	1	1
29	gi 1311015	Hose Assy	1	1
29	b 350096	Hose Assy	1	1
30	222588	Fitting	1	1
30	4028986			
	92861	O-Ring	1	1
31	c 16155	Fitting	1	1
31	hi 66885	Fitting	1	1
32	239503	Nut	1	1
32	251994	Clamp	1	1
32	292681	Lockwasher	1	1
33	344397	Hydraulic Pump (☞Figure 6-7).....	1	1
34	129684	Clamp	1	1
34	136749	Screw	1	1
34	239503	Nut	1	1
34	292681	Lockwasher	1	1
35	c 222504	Fitting	1	1
35	16485	O-Ring	1	1
35	hi 16569	Fitting	1	1
35	16485	O-Ring	1	1
36	c 17223	Fitting	1	1
36	16485	O-Ring	1	1
36	hi 16542	Connector	1	1
36	16485	O-Ring	1	1
37	114371	Hose	1	..
37	241975	Hose	..	1
38	144067	Clamp	2	2
39	18496	Capscrew	2	2
39	198678	Clamp	2	2
39	292681	Lockwasher	2	2
39	320157	Washer	2	2
40	222505	Fitting	1	1
40	16486	O-Ring	1	1
41	b 17167	Fitting	1	..

HYDRAULIC SUPPLY AND RETURN
POWERSHIFT (→ S/N F006D05389)**KEY:****A: Gasoline and LPG****B: Diesel**

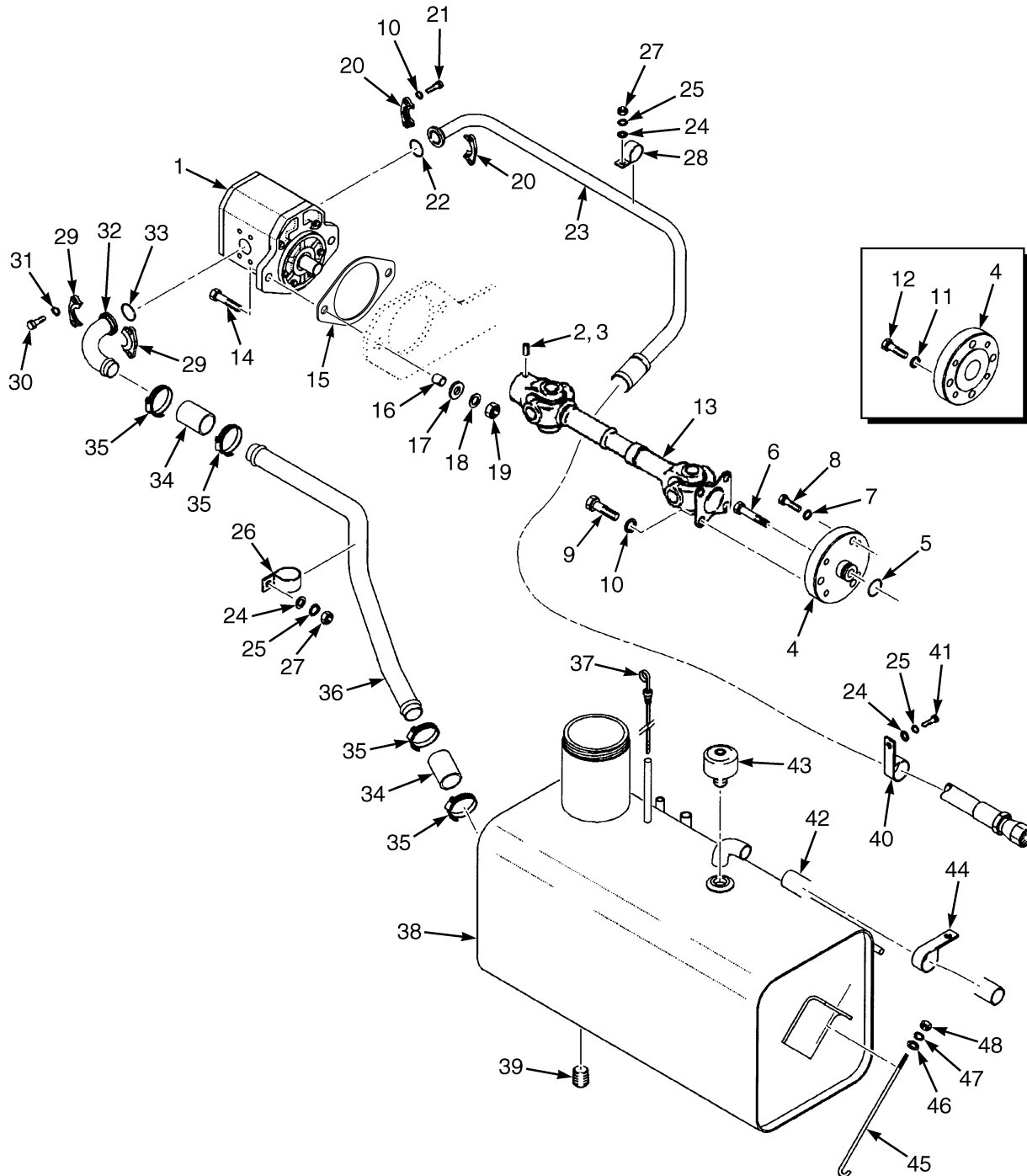
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
41	16484	O-Ring	..	1
41	b 16541	Fitting	..	1
41	16484	O-Ring	1	..
42	350055	Drive Shaft (☞ Figure 8-23).....	..	1
42	340218	Drive Shaft (☞ Figure 8-23).....	1	..
43	130845	Clamp	4	4
44	c 130845	Clamp	4	4
45	gi 17777	Fitting	1	1
46	gi 17319	Fitting	1	1
47	gi 16923	Nut	1	1
48	gi 17062	Fitting	1	1
48	16484	O-Ring	1	1
49	a 340248	Tilt Cylinder (☞ Figure 8-22).....	2	2
49	ei 2037392	Tilt Cylinder (☞ Figure 8-22).....	2	2
50	340257	Tube Assy (LH Front) (LH)	1	1
51	340258	Tube Assy (LH Rear) (LH)	1	1
52	340259	Hose Assy	4	4
53	357252	Tube Assy (RH Front) (RH)	1	1
54	357253	Tube Assy (RH Rear) (RH)	1	1
55	16541	Fitting	1	1
55	16484	O-Ring	1	1

FOOTNOTES:

a → S/N F006A01900
b → S/N F006A03790
c → S/N F006A04660
d → S/N F006D01736
e S/N F006A01901 →

f S/N F006A03040 →
g S/N F006A03791 →
h S/N F006A04661 →
i S/N F006D01501 →
j S/N F006D01737 →

HYDRAULIC SUPPLY AND RETURN (FIGURE 8-3) (S/N F006D05390 →)



YP150250

HYDRAULIC SUPPLY AND RETURN
(S/N F006D05390 →)**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	c 1367711	Hydraulic Pump (☞ Figure 8-21).....	1	1
1	a 340219	Hydraulic Pump (☞ Figure 8-21).....	1	1
2	18886	Setscrew	1	1
3	246108	Sealant	AR	AR
4	1378948	Plate	1	..
4	350054	Adapter	..	1
5	39373	O-Ring	1	..
6	221547	Capscrew	1	..
7	177947	Lockwasher	3	..
8	34811	Screw	3	..
9	16634	Capscrew	4	4
10	15156	Lockwasher	8	8
11	177948	Lockwasher	..	4
12	35116	Capscrew	..	4
13	350055	Drive Shaft	..	1
13	340218	Drive Shaft	1	..
14	292529	Capscrew	2	2
15	182889	Mount	1	1
16	182891	Hose	1	1
17	182890	Washer	2	2
18	320162	Washer	2	2
19	300937	Nut	2	2
20	190757	Clamp (Split Half)	2	2
21	16828	Capscrew	4	4
22	15866	O-Ring	1	1
23	350079	Tube Assy	1	1
24	320157	Washer	4	4
25	292681	Lockwasher	4	4
26	181899	Clamp	1	1
27	239503	Nut	2	2
28	173247	Clamp	1	1
29	17765	Clamp	2	2
30	18588	Capscrew	4	4
31	15158	Washer	4	4
32	222588	Fitting	1	1
33	4028986			
	92861	O-Ring	1	1
34	173685	Collar	2	2
35	119236	Clamp	4	4
36	377346	Tube Assy	1	1
37	350099	Dipstick	1	1
38	b 1463963	Tank	1	1
38	d 1474964	Hydraulic Tank	1	1
39	15962	Fitting	1	1
40	144067	Clamp	2	2

HYDRAULIC SUPPLY AND RETURN (S/N F006D05390 →)

KEY:

A: Gasoline and LPG

B: Diesel

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
41	18496	Capscrew	2	2
42	96481	Hose	1	1
43	369804	Clamp	2	2
44	353302	Breather	1	1
45	313221	Clamp	1	1
46	345881	Link	2	2
47	15175	Lockwasher	2	2
48	15155	Lockwasher	2	2
49	221705	Nut	2	2

FOOTNOTES:

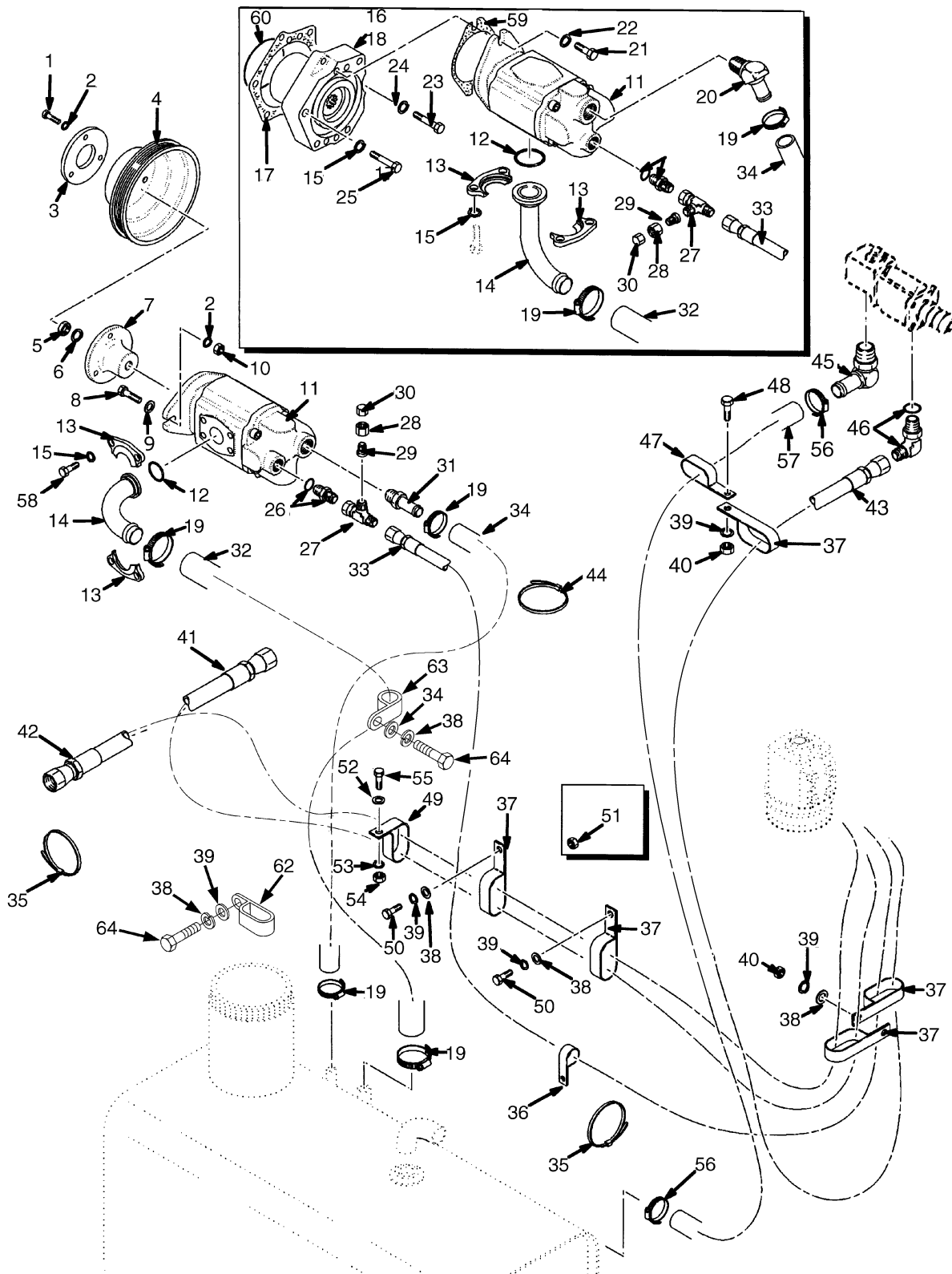
a → S/N F006D01736
b → S/N F006D05744X

c S/N F006D01737 →
d S/N F006D05745X →

NOTES

[illegible]

STEERING HYDRAULIC (FIGURE 8-4) (S/N F006D05390 →)



HP150941

STEERING HYDRAULIC
(S/N F006D05390 →)**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	16634	Capscrew	3	..
2	15156	Lockwasher	5	..
3	1462305	Plate	1	..
4	1459843	Pulley	1	..
5	1461876	Nut	1	..
6	292683	Lockwasher	1	..
7	1459838	Adapter	1	..
8	16815	Capscrew	2	..
9	221767	Washer	2	..
10	15056	Nut	2	..
11	2036997	Pump (☞Figure 6-8).....	1	..
11	2036998	Pump (☞Figure 6-8).....	..	1
12	15866	O-Ring	1	1
13	190757	Clamp (Split Half)	2	2
14	222580	Fitting	1	1
15	293781	Lockwasher	4	5
16	1462995	Adapter (☞Figure 6-9).....	..	1
17	1329660	Gasket	..	1
18	b 264159	Adhesive	..	AR
18	c 280472	Sealant	..	AR
19	130845	Clamp	4	4
20	222504	Fitting	..	1
21	136985	Capscrew	..	2
22	388049			
	292682	Lockwasher	..	2
23	296010	Capscrew	..	5
24	293780	Lockwasher	..	5
25	296025	Capscrew	..	1
26	16541	Fitting	1	1
26	16484	O-Ring	1	1
27	17062	Fitting	1	1
28	17319	Fitting	1	1
29	17777	Fitting	1	1
30	16923	Nut	1	1
31	b 17223	Fitting	1	..
31	c 222504	Fitting	1	..
32	1470400	Hose	..	1
32	114371	Hose	1	..
33	1312740	Hose Assy	..	1
33	1312741	Hose Assy	1	..
34	c 125792	Hose	..	1
34	139919	Hose	1	..
34	b 154594	Hose	..	1
35	129563	Strap Clamp	2	2
36	198678	Clamp	1	1

STEERING HYDRAULIC
(S/N F006D05390 →)**KEY:****A:** Gasoline and LPG**B:** Diesel

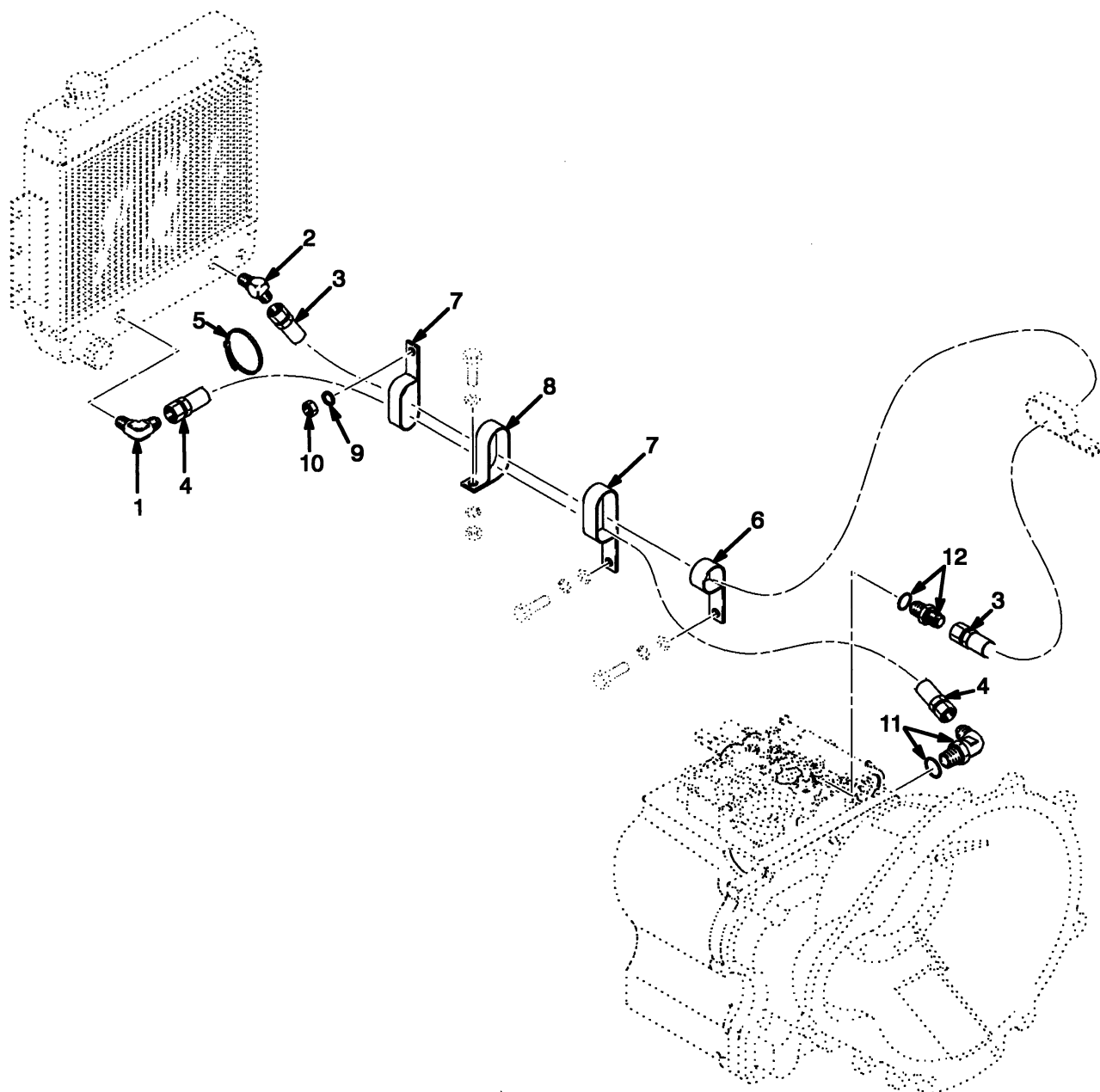
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
37	129684	Clamp	5	5
38	320157	Washer	5	4
39	292681	Lockwasher	6	5
40	239503	Nut	2	2
41	1311014	Hose Assy	1	1
42	1311015	Hose Assy	1	1
43	1312742	Hose Assy	1	1
44	129563	Strap Clamp	1	..
45	222512	Fitting	1	1
46	222400	Fitting	1	1
46	16485	O-Ring	1	1
47	251994	Clamp	1	1
48	136749	Screw	1	1
49	1326653	Clamp	1	1
50	18497	Capscrew	2	2
51	15055	Nut (LPG Only)	2	..
52	320159	Washer	2	..
53	388049			
	292682	Lockwasher	1	..
54	136692	Nut	1	..
55	287854	Capscrew	1	..
56	369804	Clamp	4	4
57	392649	Hose	1	1
58	1495729	Capscrew	4	4
58	c 1495729	Capscrew	4	4
58	b 309740	Capscrew	4	4
59	c 1471345	Gasket	..	1
60	c 1311603	O-Ring	..	1
	a 1307910	Capscrew	1	1
62	398074	Clamp	1	1
63	255578	Clamp	1	..
64	287851	Capscrew	2	1

FOOTNOTES:**a** Not Illustrated**c** S/N F006D05745X →**b** → S/N F006D05744X

NOTES

[illegible]

TRANSMISSION COOLING (FIGURE 8-5) (S/N F006D05390 →)



HP150131

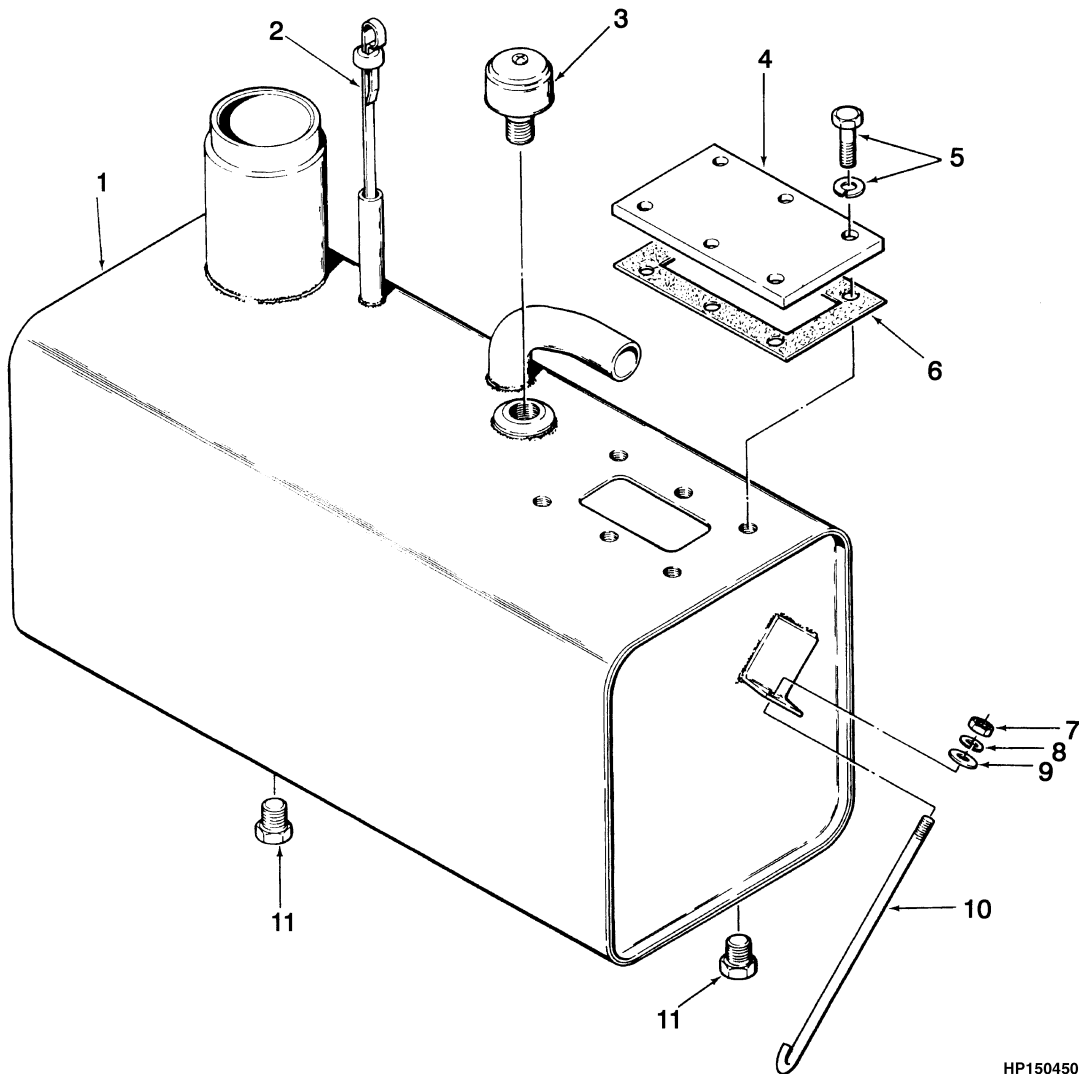
TRANSMISSION COOLING

(S/N F006D05390 →)

KEY:**A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	66885	Fitting	1	1
2	66997	Fitting	1	1
3	1326651	Hose Assy	1	1
4	1326927	Hose Assy	1	1
5	129563	Strap Clamp	1	1
6	198678	Clamp	1	1
7	251994	Clamp	2	2
8	1326652	Clamp	1	1
9	292681	Lockwasher	1	1
10	239503	Nut	1	1
11	16542	Connector	1	1
11	16485	O-Ring	1	1
12	16569	Fitting	1	1
12	16485	O-Ring	1	1

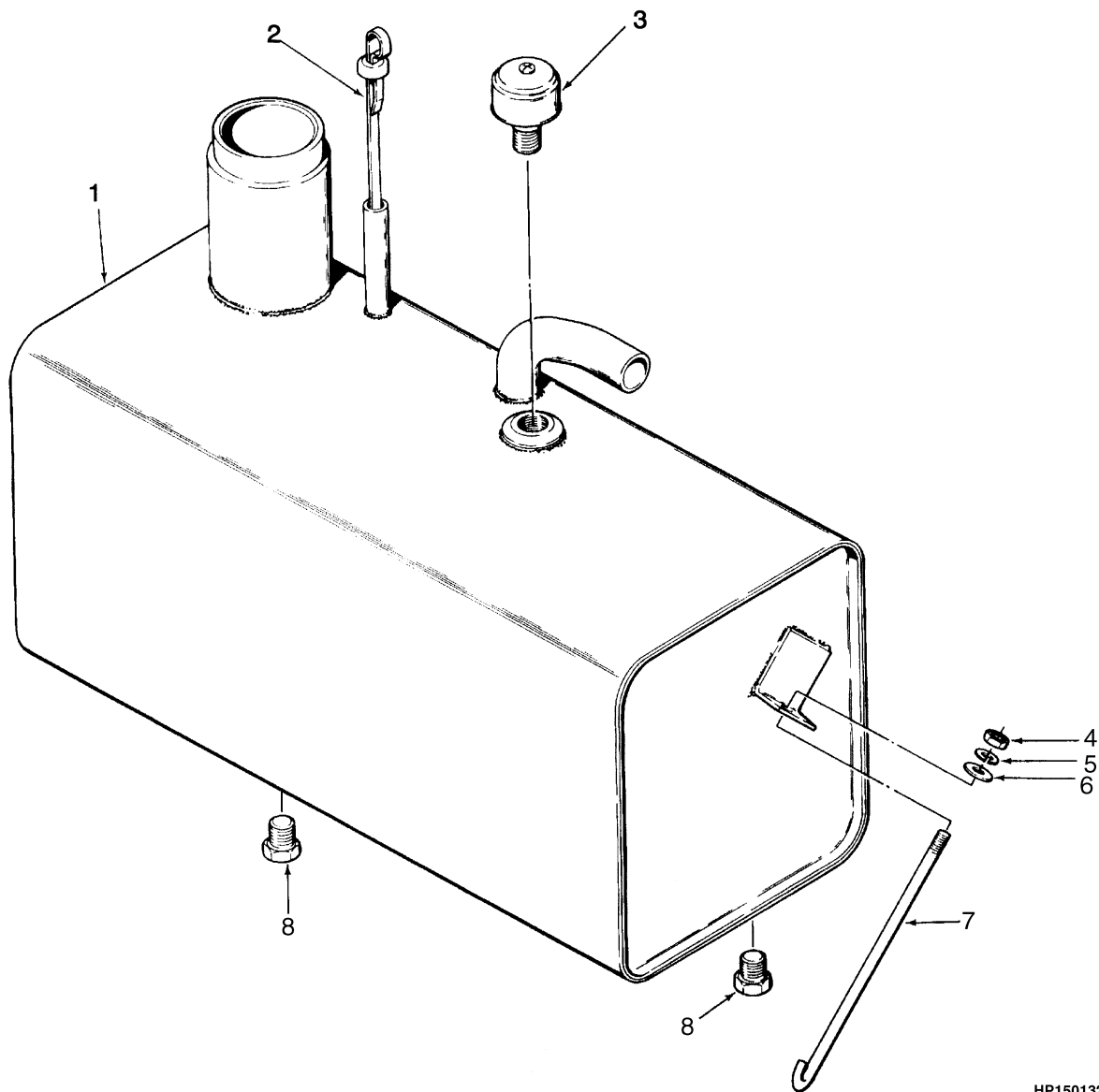
HYDRAULIC TANK (FIGURE 8-6) OIL CLUTCH (→ S/N F006D03779) (→ S/N F006D05389)



HP150450

HYDRAULIC TANK
OIL CLUTCH (→ S/N F006D03779) (→ S/N F006D05389)

ITEM	PART NO.	DESCRIPTION	QTY
1	344331	Hydraulic Tank	1
2	350099	Dipstick	1
3	75649	Air Filter	1
4	357226	Plate	1
5	15155	Lockwasher	6
5	16394	Capscrew	6
6	357225	Gasket	1
7	221705	Nut	2
8	15155	Lockwasher	2
9	15175	Lockwasher	2
10	345881	Link	2
11	15962	Fitting	2

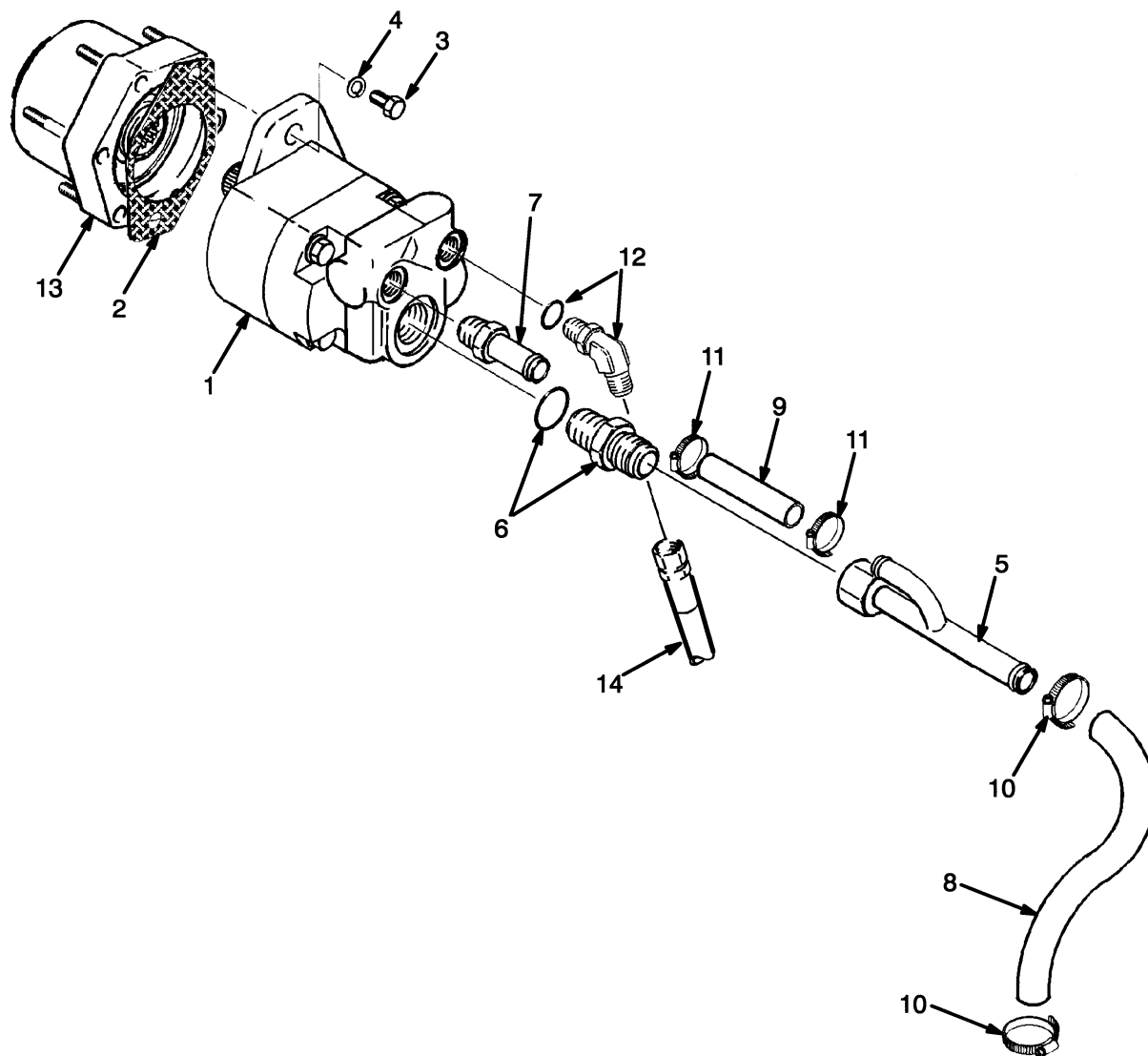
HYDRAULIC TANK (FIGURE 8-7)
POWERSHIFT (→ S/N F006D05389)

HP150132

HYDRAULIC TANK
POWERSHIFT (→ S/N F006D05389)

ITEM	PART NO.	DESCRIPTION	QTY
1	350071	Hydraulic Tank	1
2	350099	Dipstick	1
3	75649	Air Filter	1
4	221705	Nut	2
5	15155	Lockwasher	2
6	15175	Lockwasher	2
7	345881	Link	2
8	15962	Fitting	2

STEERING HYDRAULIC (FIGURE 8-8) HEAVY DUTY



HP150133

**STEERING HYDRAULIC
HEAVY DUTY**

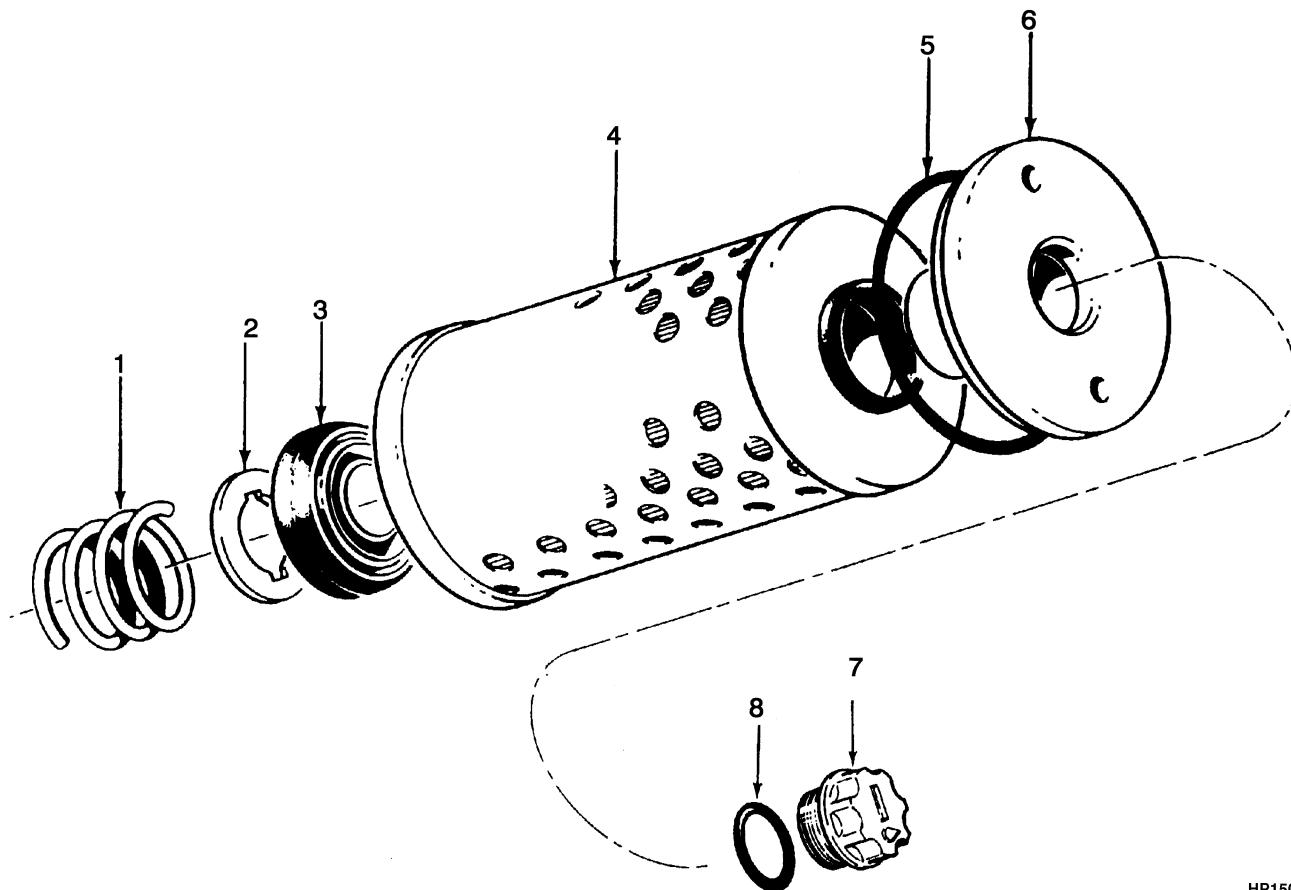
ITEM	PART NO.	DESCRIPTION	QTY
1	e 1367711	Hydraulic Pump (☞ Figure 8-21).....	1
1	b 340219	Hydraulic Pump (☞ Figure 8-21).....	1
2	1329624	Gasket	1
3	136985	Capscrew	2
4	388049		
	292682	Lockwasher	2
5	1342727	Tube Assy	1
6	83846	Fitting	1
6	16487	O-Ring	1
7	102919	Fitting	1
8	69229	Hose	1
9	931586	Hose	1
10	369804	Clamp	2
11	130845	Clamp	2
12	201752	Fitting	1
12	16485	O-Ring	1
13	1343203	Kit-Power Take Off (Auxiliary) (☞ Figure 2-70).....	1
14	cd 1312740	Hose Assy	1
14	a 300596	Hose Assy	1

FOOTNOTES:

a → S/N F006A03790
b → S/N F006D01736
c S/N F006A03791 →

d S/N F006D01501 →
e S/N F006D01737 →

HYDRAULIC OIL FILTER (FIGURE 8-9)



HP150134

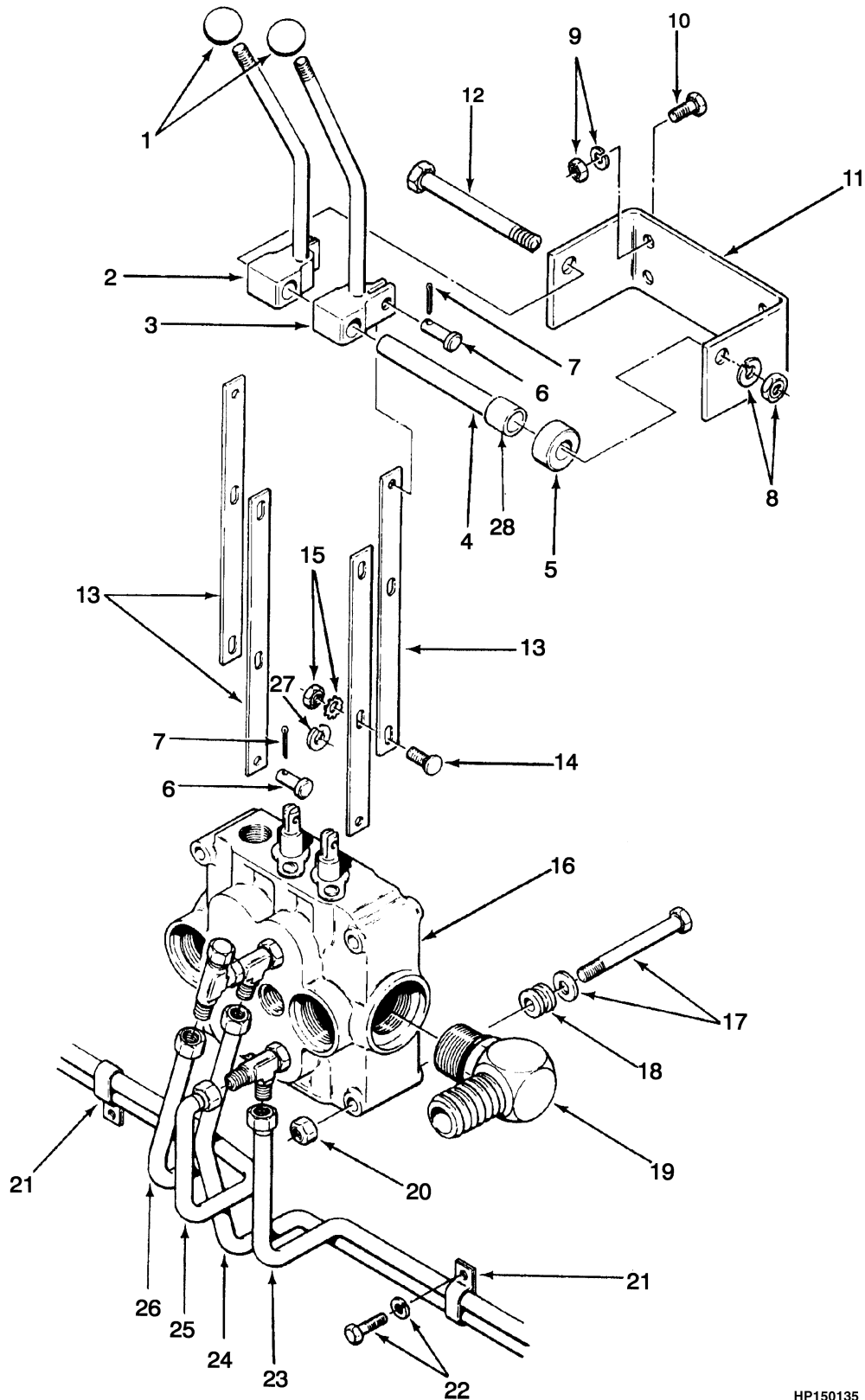
ITEM	PART NO.	DESCRIPTION	QTY
1	190784	Spring	1
2	190785	Washer	1
3	181941	Seal	1
4	190786	Hydraulic Filter	1
5	39742	O-Ring	1
6	190787	Filter Head	1
7	218612	Cap (Dipstick)	1
8	16487	O-Ring	1

NOTES

[illegible]

CONTROL VALVE ATTACHING PARTS (FIGURE 8-10)

TWO FUNCTION (→ S/N F006D05327X 3 WAY) (→ S/N F006D05655X 4 WAY)



HP150135

CONTROL VALVE ATTACHING PARTS

TWO FUNCTION (→ S/N F006D05327X 3 WAY) (→ S/N F006D05655X 4 WAY)

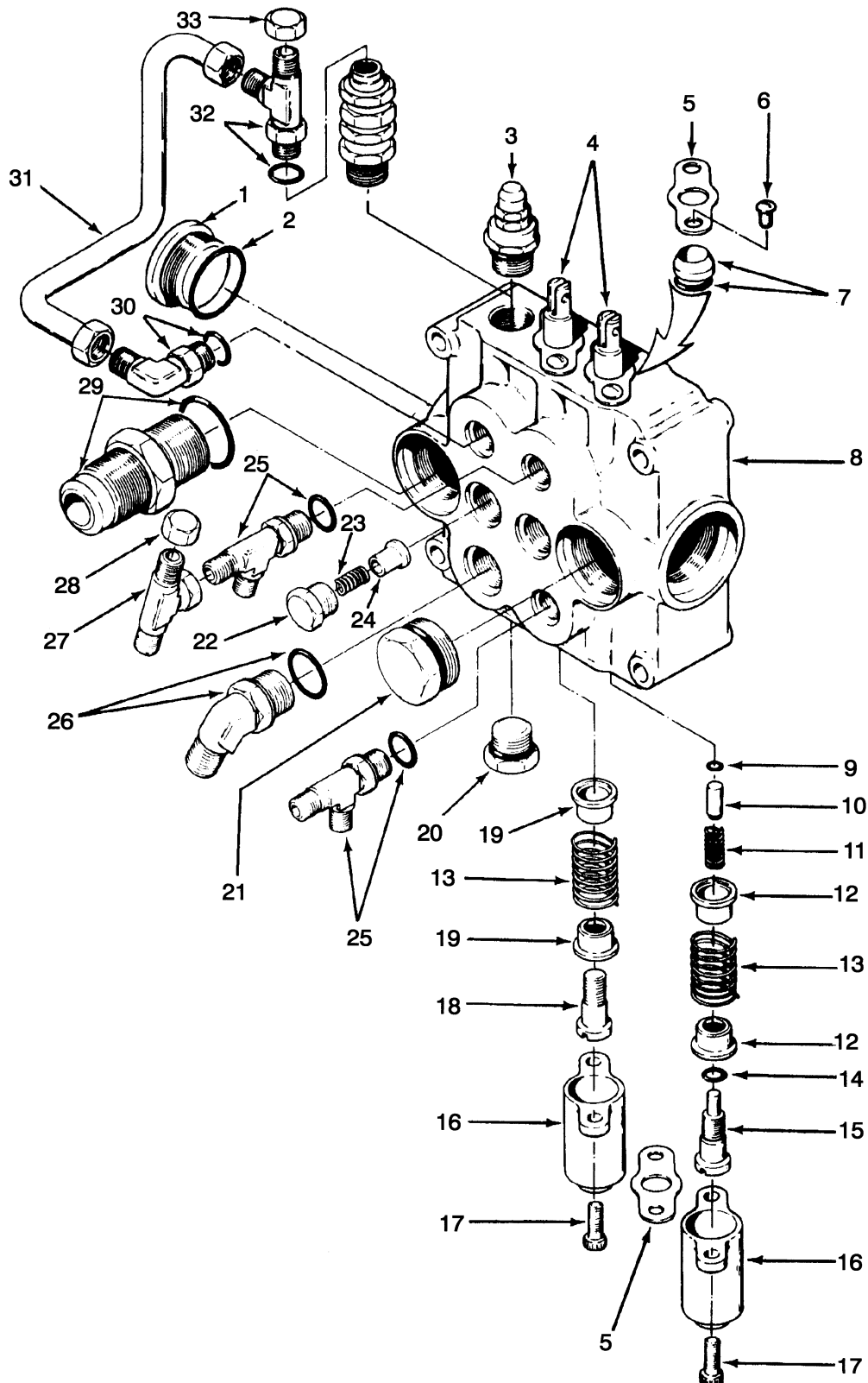
ITEM	PART NO.	DESCRIPTION	QTY
1	308993	Knob	2
2	1324350	Lever	1
3	1324352	Lever	1
4	b 309085	Spacer	1
4	df 1305174	Shaft	1
5	b 309086	Collar	1
5	df 1309475	Collar	1
6	309109	Pin	4
7	15200	Cotter Pin	4
8	df 292681	Lockwasher	2
8	b 316826	Nut	1
8	b 320160	Washer	1
9	136687	Nut	4
9	292680	Washer	4
10	292500	Capscrew	4
11	b 306119	Bracket	1
11	df 1309491	Bracket	1
12	ef 1328930	Capscrew	2
12	c 136681	Capscrew	2
12	b 287855	Capscrew	1
13	325729	Plate	4
14	15937	Bolt	4
15	15054	Nut	4
15	15127	Washer	4
16	a 350062	Hydraulic Control Valve (☞ Figure 8-11).....	1
17	292524	Capscrew	3
17	320160	Washer	3
18	91946	Grommet	3
19	1350273	Fitting	1
20	316826	Nut	3
21	133203	Clamp	2
22	287851	Capscrew	2
22	292681	Lockwasher	2
23	369552	Tube Assy	1
24	369555	Tube Assy	1
25	369556	Tube Assy	1
26	369557	Tube Assy	1
27	15154	Lockwasher	4
28	ef 1328698	Bushing	2
28	c 306599	Bushing	2

FOOTNOTES:

a → S/N F006A01900
b → S/N F006A03340
c S/N F006A03341 ↔ S/N F006A05511

d S/N F006A03341 →
e S/N F006A05512 →
f S/N F006D01501 →

CONTROL VALVE WITH FITTINGS (FIGURE 8-11)
TWO FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)



HP150136

CONTROL VALVE WITH FITTINGS
TWO FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)

ITEM	PART NO.	DESCRIPTION	QTY
	a 350062	Hydraulic Control Valve	1
	bc 377642	Valve	1
1	333404	Plug	1
2	16487	O-Ring	1
3	bc 1308975	Kit-Seal	1
3	a 274433	Relief Valve	1
3	a 305069	Kit-Seal	1
3	bc 342726	Relief Valve	1
4		Spool	2
5	77451	Plate	4
6	16706	Screw	4
7		Wiper	4
7		O-Ring	4
8		Housing	1
9	140594	O-Ring	1
10		Piston	1
11	304002	Spring	1
12	300724	Spring Seat	2
13	300723	Spring	2
14	16482	O-Ring	1
15	304006	Capscrew	1
16	274426	Cap	2
17	16328	Capscrew	4
18	274548	Capscrew	1
19	274427	Spring Seat	2
20	255145	Plug	1
21	317716	Plug	1
22	274430	Plug	2
23	77442	Spring	2
24	77443	Poppet	2
25	16969	T-Fitting	2
25	16483	O-Ring	1
26	16570	Fitting	1
26	16486	O-Ring	1
27	17049	Fitting	1
28	16693	Nut	1
29	16954	Connector	1
29	16982	O-Ring	1
30	bc 16556	Fitting (Elbow)	1
30	bc 16481	O-Ring	1
31	bc 357228	Tube Assy	1
32	bc 16967	T-Fitting	1
32	bc 16481	O-Ring	1
33	bc 16923	Nut	1
	336836	Kit-Seal	1

FOOTNOTES:

a → S/N F006A01900

b S/N F006A01901 →

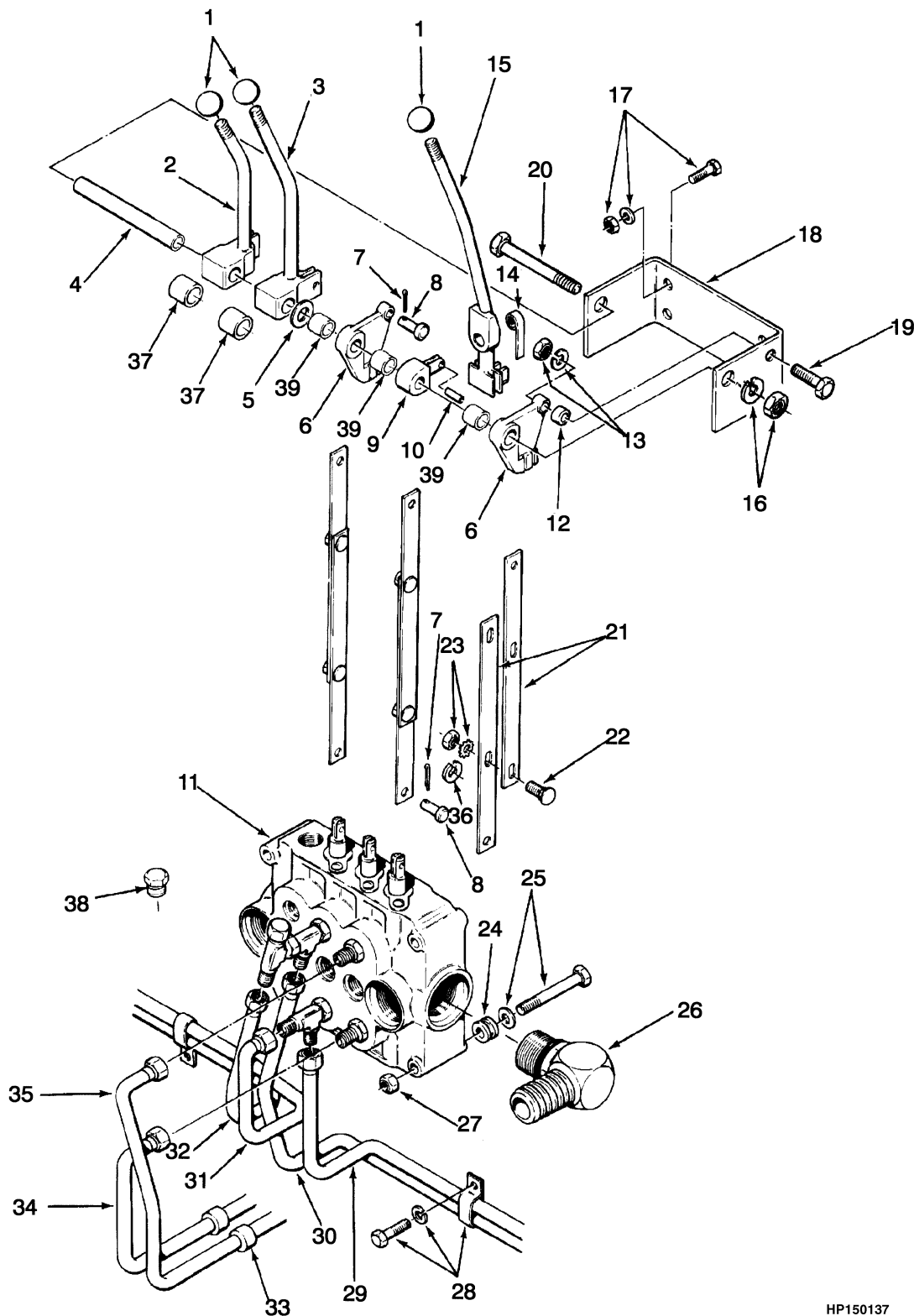
c S/N F006D01501 →

NOTES

[illegible]

CONTROL VALVE ATTACHING PARTS (FIGURE 8-12)

THREE FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)



HP150137

CONTROL VALVE ATTACHING PARTS

THREE FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)

ITEM	PART NO.	DESCRIPTION	QTY
1	308993	Knob	3
2	1324350	Lever	1
3	1324352	Lever	1
4	ce 1305174	Shaft	1
4	a 309085	Spacer	1
5	ce 1309479	Shim (0.020 in.)	AR
5	de 1328696	Shim (0.010 in.)	AR
5	a 306120	Shim (0.020 in.)	AR
6	306111	Lever	2
7	15200	Cotter Pin	6
8	309109	Pin	6
9	306113	Pin (Selector)	1
10	302428	Roll Pin	1
11	350063	Valve (☞ Figure 8-13).....	1
12	306118	Spacer	1
13	ce 15163	Lockwasher	1
13	ce 230881	Locknut	1
13	a 292667	Nut	1
13	a 292678	Lockwasher	1
14	175861	Spring	1
15	306117	Lever	1
16	ce 292681	Lockwasher	1
16	a 316826	Nut	1
16	a 320160	Washer	1
17	136687	Nut	4
17	292500	Capscrew	4
17	292680	Washer	4
18	ce 1309491	Bracket	1
18	a 306119	Bracket	1
19	ce 18085	Capscrew	1
19	a 306121	Capscrew	1
20	de 1328930	Capscrew	2
20	b 136681	Capscrew	2
20	a 287855	Capscrew	1
21	325729	Plate	6
22	15937	Bolt	6
23	15054	Nut	6
23	15127	Washer	6
24	91946	Grommet	3
25	292524	Capscrew	3
25	320159	Washer	3
26	1350273	Fitting	1
27	316826	Nut	3
28	133203	Clamp	2
28	287851	Capscrew	2
28	292681	Lockwasher	2
29	369552	Tube Assy	1
30	369555	Tube Assy	1
31	369556	Tube Assy	1
32	369557	Tube Assy	1

CONTROL VALVE ATTACHING PARTS
THREE FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)

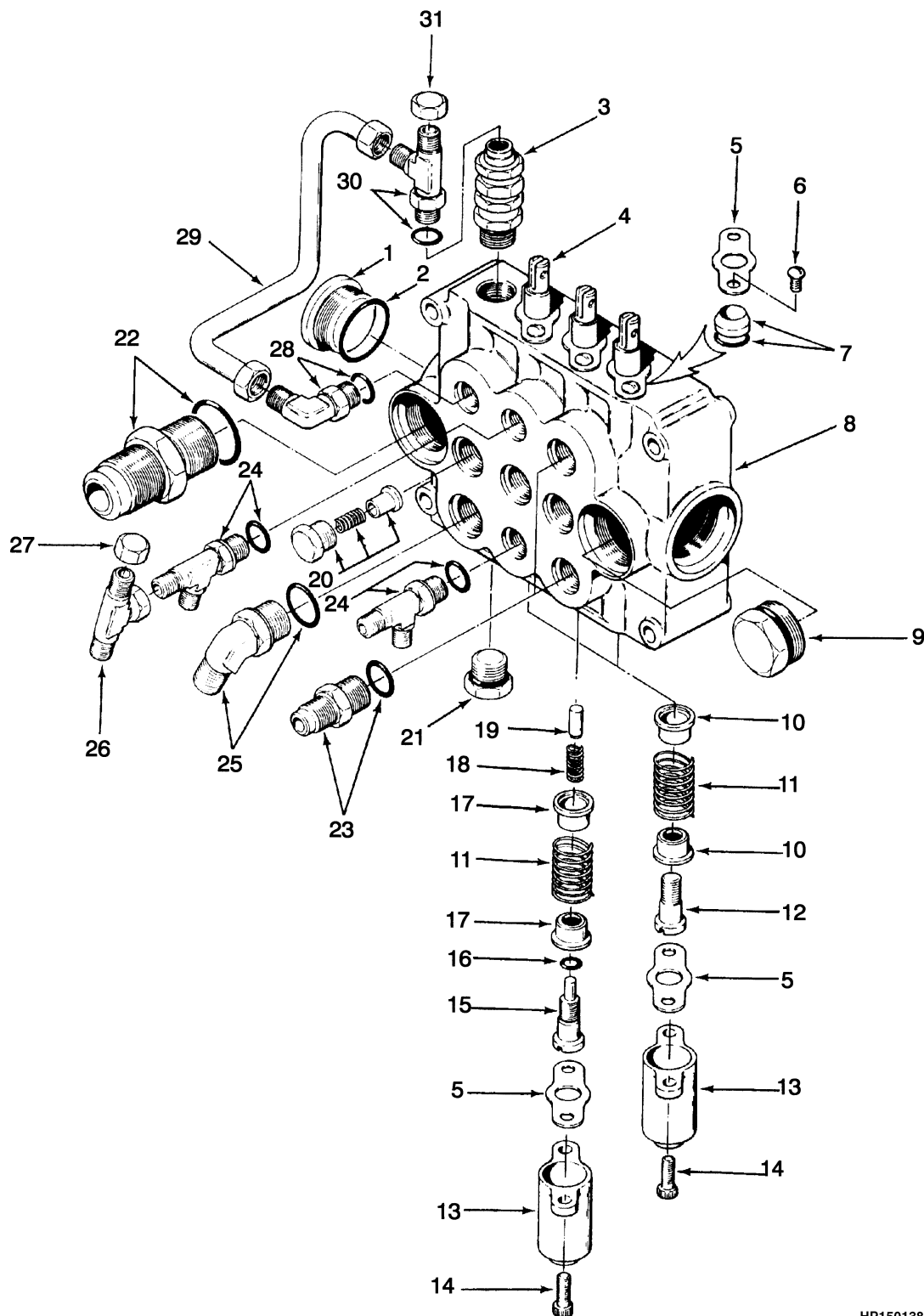
ITEM	PART NO.	DESCRIPTION	QTY
33	339969	Grommet	2
34	377613	Tube Assy	1
35	377614	Tube Assy	1
36	15154	Lockwasher	6
37	de 1328698	Bushing	2
37	b 306599	Bushing	2
38	17321	Fitting	2
39	de 1328697	Bushing	3
39	b 306598	Bushing	3

FOOTNOTES:**a** → S/N F006A03340**b** S/N F006A03341 ↔ S/N F006A05511**c** S/N F006A03341 →**d** S/N F006A05512 →**e** S/N F006D01501 →

NOTES

[illegible]

CONTROL VALVE WITH FITTINGS (FIGURE 8-13)
THREE FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)



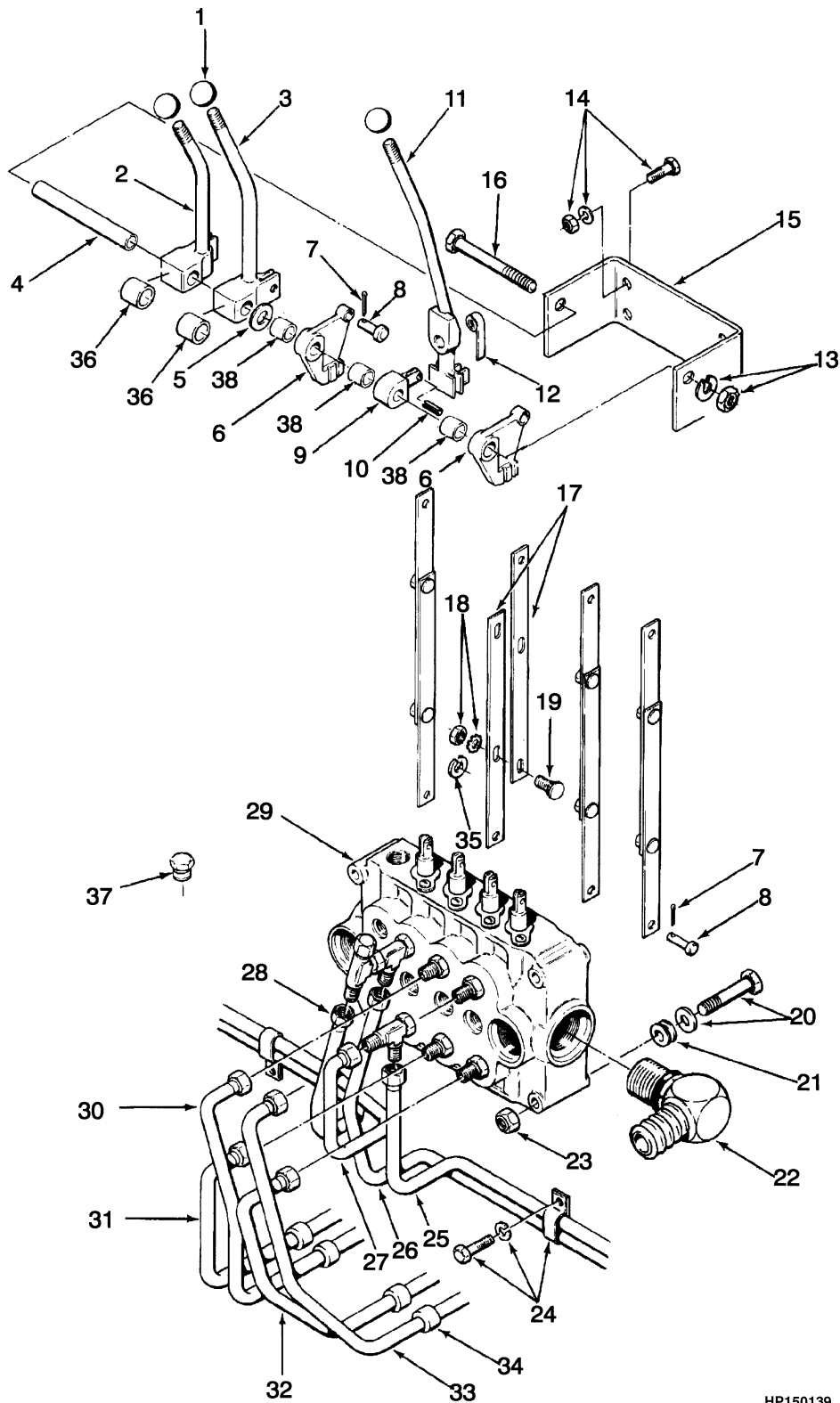
HP150138

CONTROL VALVE WITH FITTINGS
THREE FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)

ITEM	PART NO.	DESCRIPTION	QTY
	350063	Valve	1
1	333404	Plug	1
2	16487	O-Ring	1
3	1308975	Kit-Seal	1
3	342726	Relief Valve	1
4		Spool	3
5	77451	Plate	6
6	16706	Screw	6
7		Wiper	6
7		O-Ring	6
8		Housing	1
9	317716	Plug	1
10	274427	Spring Seat	4
11	300723	Spring	3
12	274548	Capscrew	2
13	274426	Cap	3
14	16328	Capscrew	6
15	304006	Capscrew	1
16	16482	O-Ring	1
17	300724	Spring Seat	2
18	304002	Spring	1
19		Piston	1
20	274430	Plug	3
20	77442	Spring	3
20	77443	Poppet	3
21	255145	Plug	1
22	16954	Connector	1
22	16982	O-Ring	1
23	16541	Fitting	2
23	16484	O-Ring	1
24	16969	T-Fitting	2
24	16483	O-Ring	1
25	16570	Fitting	1
25	16486	O-Ring	1
26	17049	Fitting	1
27	16693	Nut	1
28	16556	Fitting (Elbow)	1
28	16481	O-Ring	1
29	357228	Tube Assy	1
30	16967	T-Fitting	1
30	16481	O-Ring	1
31	16923	Nut	1
	336836	Kit-Seal	1

CONTROL VALVE ATTACHING PARTS (FIGURE 8-14)

FOUR FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)



HP150139

CONTROL VALVE ATTACHING PARTS

FOUR FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)

ITEM	PART NO.	DESCRIPTION	QTY
1	308993	Knob	3
2	1324350	Lever	1
3	1324352	Lever	1
4	ce 1305174	Shaft	1
4	a 309085	Spacer	1
5	ce 1309479	Shim (0.020 in.)	AR
5	de 1328696	Shim (0.010 in.)	AR
5	a 306120	Shim (0.020 in.)	AR
6	306111	Lever	2
7	15200	Cotter Pin	8
8	309109	Pin	8
9	306113	Pin (Selector)	1
10	302428	Roll Pin	1
11	306117	Lever	1
12	175861	Spring	1
13	ce 292681	Lockwasher	2
13	a 316826	Nut	1
13	a 320160	Washer	1
14	136687	Nut	4
14	292500	Capscrew	4
14	292680	Washer	4
15	ce 1309491	Bracket	1
15	a 306119	Bracket	1
16	de 1328930	Capscrew	2
16	de 136681	Capscrew	2
16	a 287855	Capscrew	1
17	325729	Plate	8
18	15054	Nut	8
18	15127	Washer	8
19	15937	Bolt	8
20	292524	Capscrew	3
20	320159	Washer	3
21	91946	Grommet	3
22	1350273	Fitting	1
23	316826	Nut	3
24	133203	Clamp	2
24	287851	Capscrew	2
24	292681	Lockwasher	2
25	369552	Tube Assy	1
26	369555	Tube Assy	1
27	369556	Tube Assy	1
28	369557	Tube Assy	1
29	350064	Hydraulic Control Valve (☞ Figure 8-15).....	1
30	377614	Tube Assy	1
31	377613	Tube Assy	1
32	369549	Tube Assy	1
33	369550	Tube Assy	1
34	339969	Grommet	4
35	15154	Lockwasher	8
36	b 1328698	Bushing	2

CONTROL VALVE ATTACHING PARTS
FOUR FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)

ITEM	PART NO.	DESCRIPTION	QTY
36	de 306599	Bushing	2
37	17321	Fitting	4
38	b 1328697	Bushing	3
38	de 306598	Bushing	3

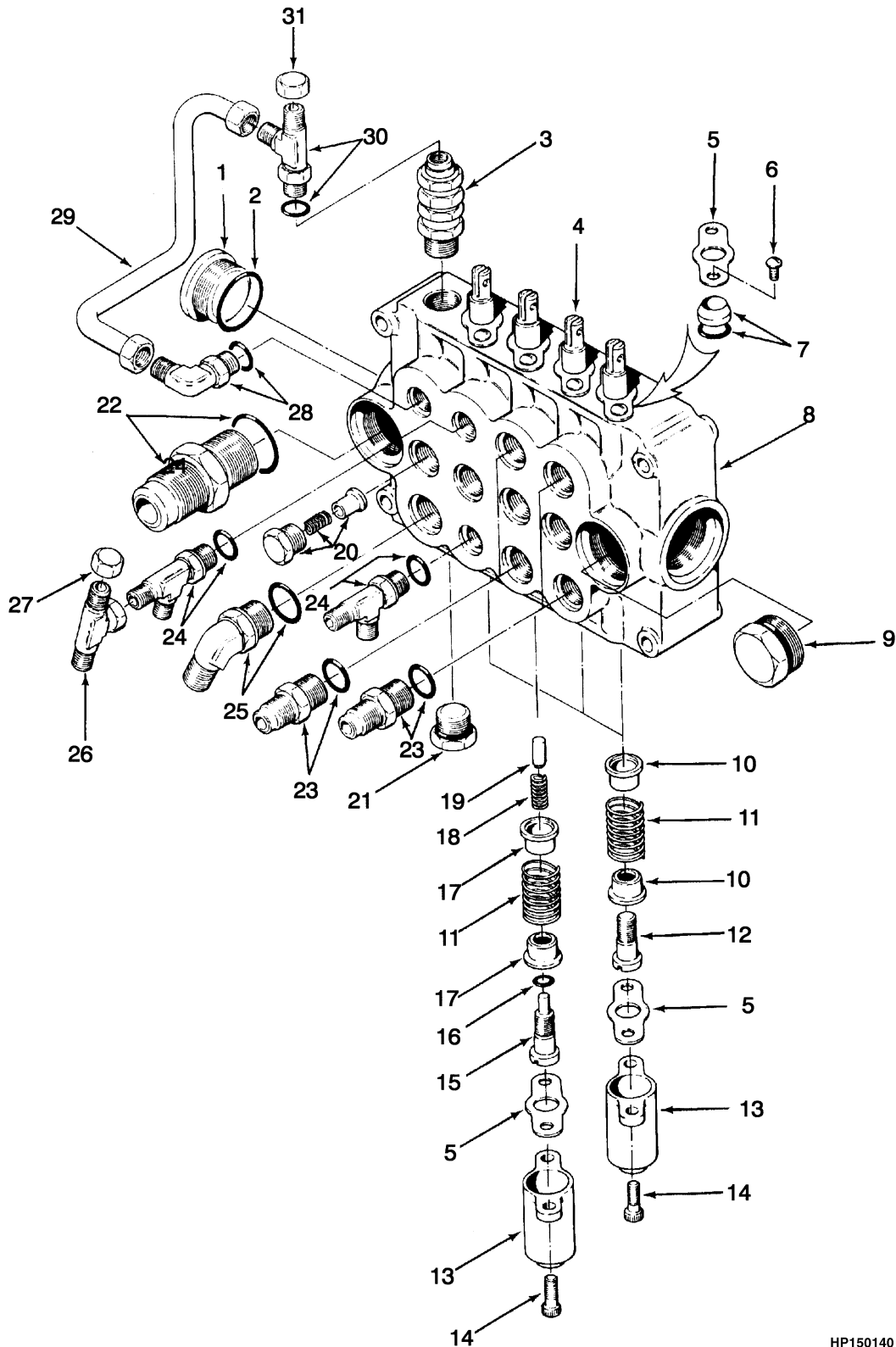
FOOTNOTES:**a** → S/N F006A03340**b** S/N F006A03341 ↔ S/N F006A05511**c** S/N F006A03341 →**d** S/N F006A05512 →**e** S/N F006D01501 →

NOTES

[illegible]

CONTROL VALVE WITH FITTINGS (FIGURE 8-15)

FOUR FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)



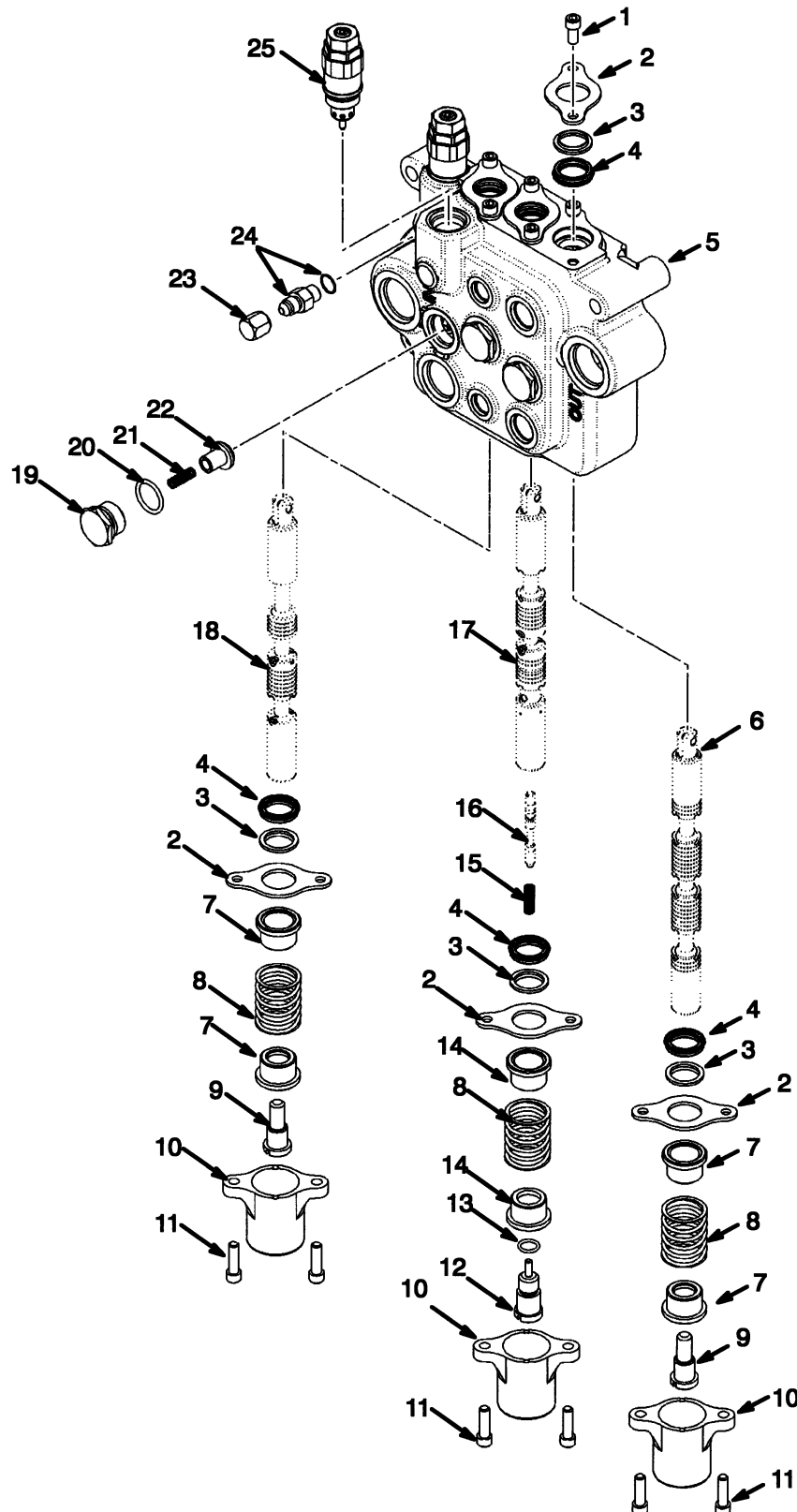
HP150140

CONTROL VALVE WITH FITTINGS
FOUR FUNCTION (→ S/N F006D05627X 3 WAY) (→ S/N F006D05655X 4 WAY)

ITEM	PART NO.	DESCRIPTION	QTY
	350064	Hydraulic Control Valve	1
1	333404	Plug	1
2	16487	O-Ring	1
3	1308975	Kit-Seal	1
3	342726	Relief Valve	1
4		Spool	4
5	77451	Plate	8
6	16706	Screw	8
7		Wiper	8
7		O-Ring	8
8		Housing	1
9	317716	Plug	1
10	274427	Spring Seat	6
11	300723	Spring	4
12	274548	Capscrew	3
13	274426	Cap	4
14	16328	Capscrew	8
15	304006	Capscrew	1
16	16482	O-Ring	1
17	300724	Spring Seat	2
18	304002	Spring	1
19		Piston	1
20	274430	Plug	4
20	77442	Spring	4
20	77443	Poppet	4
21	255145	Plug	1
22	16954	Connector	1
22	16982	O-Ring	1
23	16541	Fitting	4
23	16484	O-Ring	1
24	16969	T-Fitting	2
24	16483	O-Ring	1
25	16570	Fitting	1
25	16486	O-Ring	1
26	17049	Fitting	1
27	16693	Nut	1
28	16556	Fitting (Elbow)	1
28	16481	O-Ring	1
29	357228	Tube Assy	1
30	16967	T-Fitting	1
30	16481	O-Ring	1
31	16923	Nut	1
	336836	Kit-Seal	1

CONTROL VALVE (FIGURE 8-16)

TWO AND THREE FUNCTION (S/N F006D05628X → 3 WAY) (S/N F006D05656X → 4 WAY)



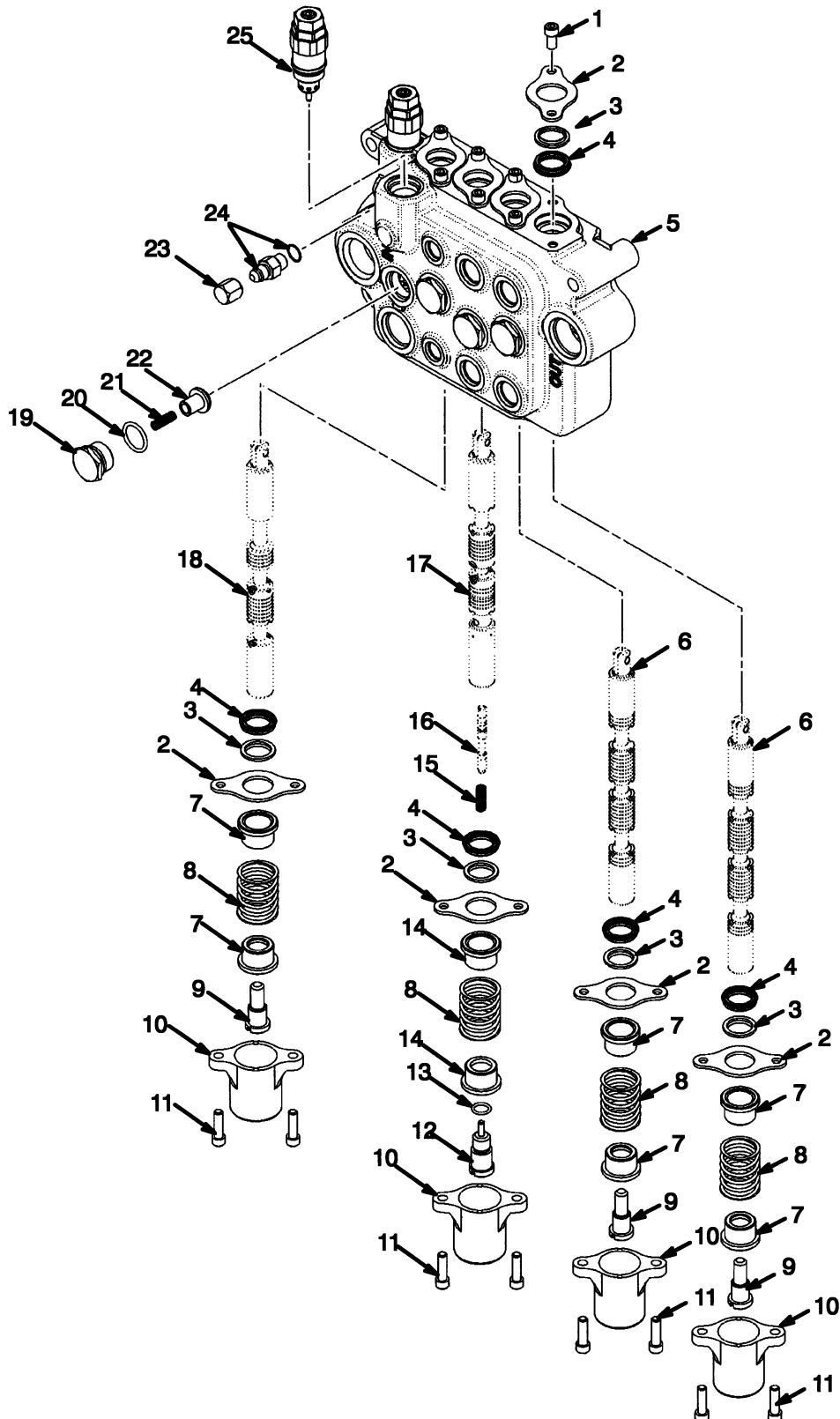
HP150141

CONTROL VALVE**TWO AND THREE FUNCTION (S/N F006D05628X → 3 WAY) (S/N F006D05656X → 4 WAY)**

ITEM	PART NO.	DESCRIPTION	QTY
	2038290	Valve	1
1	16632	Bolt	6
2	77451	Plate	6
3	1393703	Wiper	6
4	1393704	Seal	6
5		Housing	1
6		Spool (Lift)	1
7	274427	Spring Seat	4
8	300723	Spring	3
9	274548	Capscrew	2
10	274426	Cap	3
11	16328	Capscrew	6
12	304006	Capscrew	1
13	16482	O-Ring	1
14	300724	Spring Seat	2
15	304002	Spring	1
16		Piston	1
17		Spool	1
18		Spool	1
19	77441	Plug	3
20	16485	O-Ring	3
21	77442	Spring	3
22	77443	Poppet	3
23	16923	Nut	1
24	16538	Connector	1
24	16481	O-Ring	1
25	378424	Relief Valve	2

CONTROL VALVE (FIGURE 8-17)

FOUR FUNCTION (S/N F006D05628X → 3 WAY) (S/N F006D05656X → 4 WAY)



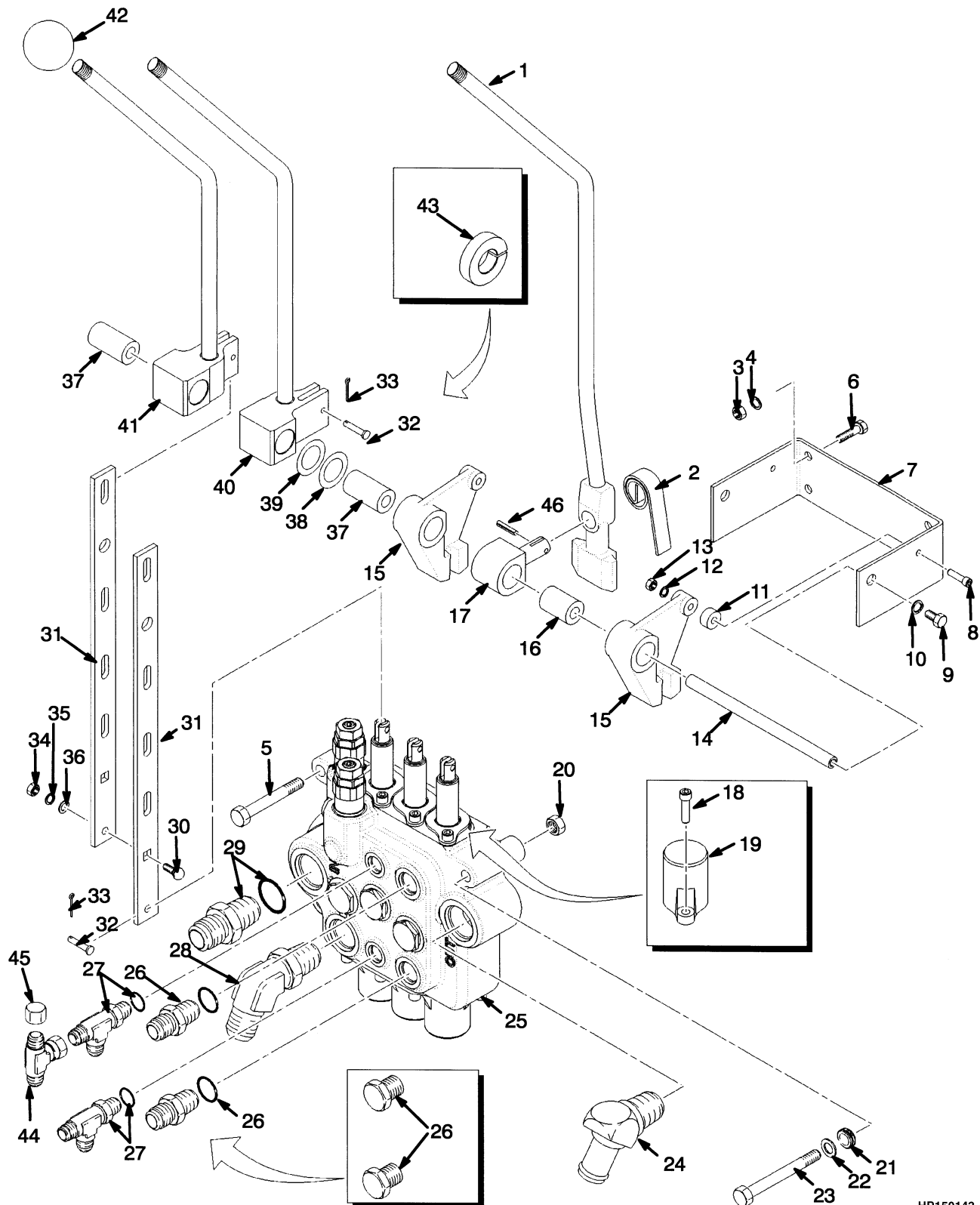
HP150142

CONTROL VALVE
FOUR FUNCTION (S/N F006D05628X → 3 WAY) (S/N F006D05656X → 4 WAY)

ITEM	PART NO.	DESCRIPTION	QTY
	2038291	Valve	1
1	16632	Bolt	8
2	77451	Plate	8
3	1393703	Wiper	8
4	1393704	Seal	8
5		Housing	1
6		Spool (Lift)	2
7	274427	Spring Seat	6
8	300723	Spring	4
9	274548	Capscrew	3
10	274426	Cap	4
11	16328	Capscrew	8
12	304006	Capscrew	1
13	16482	O-Ring	1
14	300724	Spring Seat	2
15	304002	Spring	1
16		Piston	1
17		Spool	1
18		Spool	1
19	77441	Plug	4
20	16485	O-Ring	4
21	77442	Spring	4
22	77443	Poppet	4
23	16923	Nut	1
24	16538	Connector	1
24	16481	O-Ring	1
25	378424	Relief Valve	2

CONTROL VALVE ATTACHING PARTS WITH FITTINGS (FIGURE 8-18)

TWO AND THREE FUNCTION (S/N F006D05628X → 3 WAY) (S/N F006D05656X → 4 WAY)



HP150143

CONTROL VALVE ATTACHING PARTS WITH FITTINGS

TWO AND THREE FUNCTION (S/N F006D05628X → 3 WAY) (S/N F006D05656X → 4 WAY)

KEY:**A: Two Function****B: Three Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	306117	Lever	..	1
2	175861	Spring	..	1
3	136687	Nut	4	4
4	292680	Washer	4	4
5	292521	Capscrew	2	2
6	292501	Capscrew	4	4
6	320156	Washer	4	4
7	1309491	Bracket	1	1
8	18085	Capscrew	..	1
9	1328930	Capscrew	2	2
10	292681	Lockwasher	2	2
11	306118	Spacer	..	1
12	15163	Lockwasher	..	1
13	230881	Locknut	..	1
14	1305174	Shaft	1	1
15	306111	Lever	..	2
16	1328697	Bushing	..	3
17	306113	Pin (Selector)	..	1
18	16328	Capscrew	2	..
19	274426	Cap	1	..
20	316826	Nut	3	3
21	91946	Grommet	3	3
22	320160	Washer	3	3
23	292524	Capscrew	1	1
24	1478715	Fitting	1	1
25	2038290	Valve (☞ Figure 8-16).....	1	1
26	14595	Plug Assembly	2	..
26	16483	O-Ring	1	..
26	16541	Fitting	..	2
26	16484	O-Ring	..	1
27	16969	T-Fitting	2	2
27	16983	O-Ring	1	1
28	16570	Fitting	1	1
28	16486	O-Ring	1	1
29	16954	Connector	1	1
29	16982	O-Ring	1	1
30	15937	Bolt	4	6
31	325729	Plate	4	6
32	309109	Pin	4	6
33	15200	Cotter Pin	4	6
34	15054	Nut	4	6
35	15154	Lockwasher	4	6
36	15127	Washer	4	6
37	1328698	Bushing	2	2
38	1309479	Shim (0.020 in.)	..	6

CONTROL VALVE ATTACHING PARTS WITH FITTINGS

TWO AND THREE FUNCTION (S/N F006D05628X → 3 WAY) (S/N F006D05656X → 4 WAY)

KEY:

A: Two Function

B: Three Function

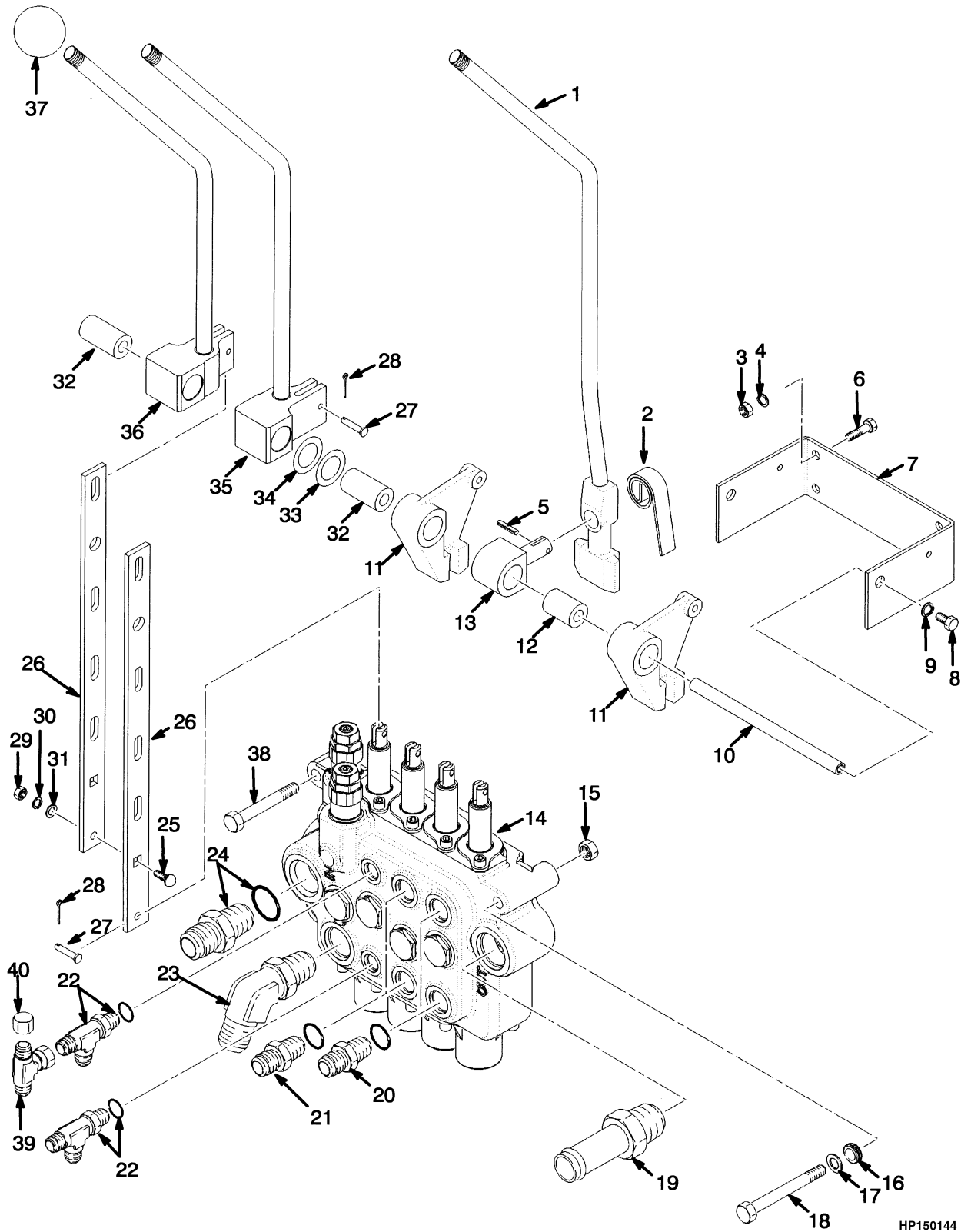
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
39	1328696	Shim (0.010 in.)	..	AR
40	1324352	Lever	1	1
41	1324350	Lever	1	1
42	308993	Knob	2	3
43	1309475	Collar	1	..
44	17049	Fitting	1	1
45	16693	Nut	1	1
46	302428	Roll Pin	1	1

NOTES

[illegible]

CONTROL VALVE ATTACHING PARTS WITH FITTINGS (FIGURE 8-19)

FOUR FUNCTION (S/N F006D05628X → 3 WAY) (S/N F006D05656X → 4 WAY)



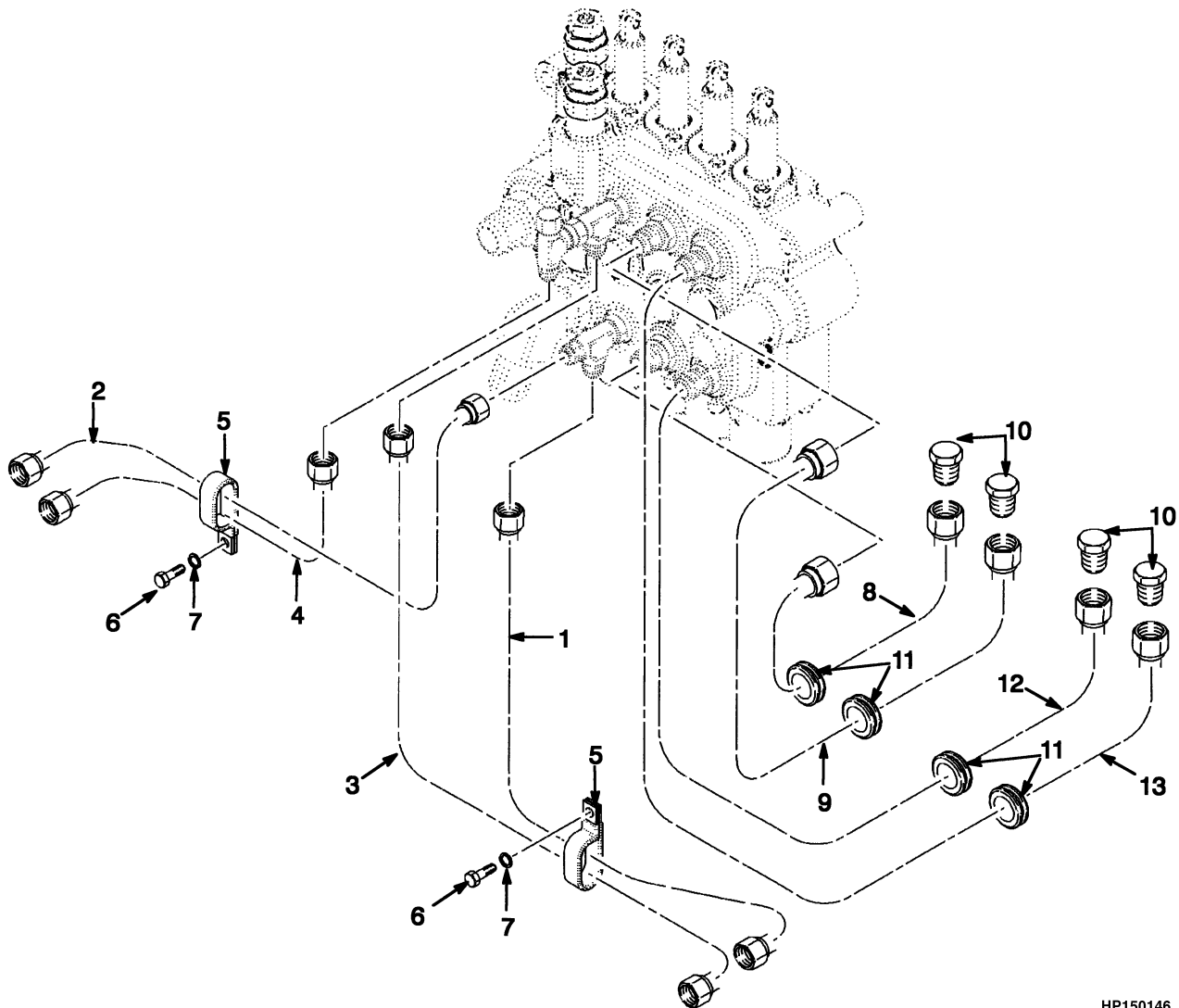
HP150144

CONTROL VALVE ATTACHING PARTS WITH FITTINGS
FOUR FUNCTION (S/N F006D05628X → 3 WAY) (S/N F006D05656X → 4 WAY)

ITEM	PART NO.	DESCRIPTION	QTY
1	306117	Lever	1
2	175861	Spring	1
3	136687	Nut	4
4	292680	Washer	1
5	302428	Roll Pin	4
5	292501	Capscrew	4
7	1309491	Bracket	1
7	320156	Washer	4
8	1328930	Capscrew	2
9	292681	Lockwasher	2
10	1305174	Shaft	1
11	306111	Lever	2
12	1328697	Bushing	3
13	306113	Pin (Selector)	1
14	2038291	Valve (☞ Figure 8-17).....	1
15	316826	Nut	3
16	91946	Grommet	3
17	320160	Washer	3
18	292524	Capscrew	1
19	1478700	Fitting	1
20	16480	O-Ring	2
20	16483	O-Ring	1
21	16484	O-Ring	1
21	16541	Fitting	2
22	16483	O-Ring	1
22	16969	T-Fitting	1
23	16486	O-Ring	1
23	16570	Fitting	1
24	16954	Connector	1
24	16982	O-Ring	1
25	15937	Bolt	8
26	325729	Plate	8
27	309109	Pin	8
28	15200	Cotter Pin	8
29	15054	Nut	8
30	15154	Lockwasher	8
31	15127	Washer	8
32	1328698	Bushing	2
33	1309479	Shim (0.020 in.)	6
34	1328696	Shim (0.010 in.)	AR
35	1324352	Lever	1
36	1324350	Lever	1
37	308993	Knob	3
38	292521	Capscrew	2
39	17049	Fitting	1
40	16693	Nut	1

CONTROL VALVE ATTACHING TUBES (FIGURE 8-20)

(S/N F006D05628X → 3 WAY) (S/N F006D05656X → 4 WAY)



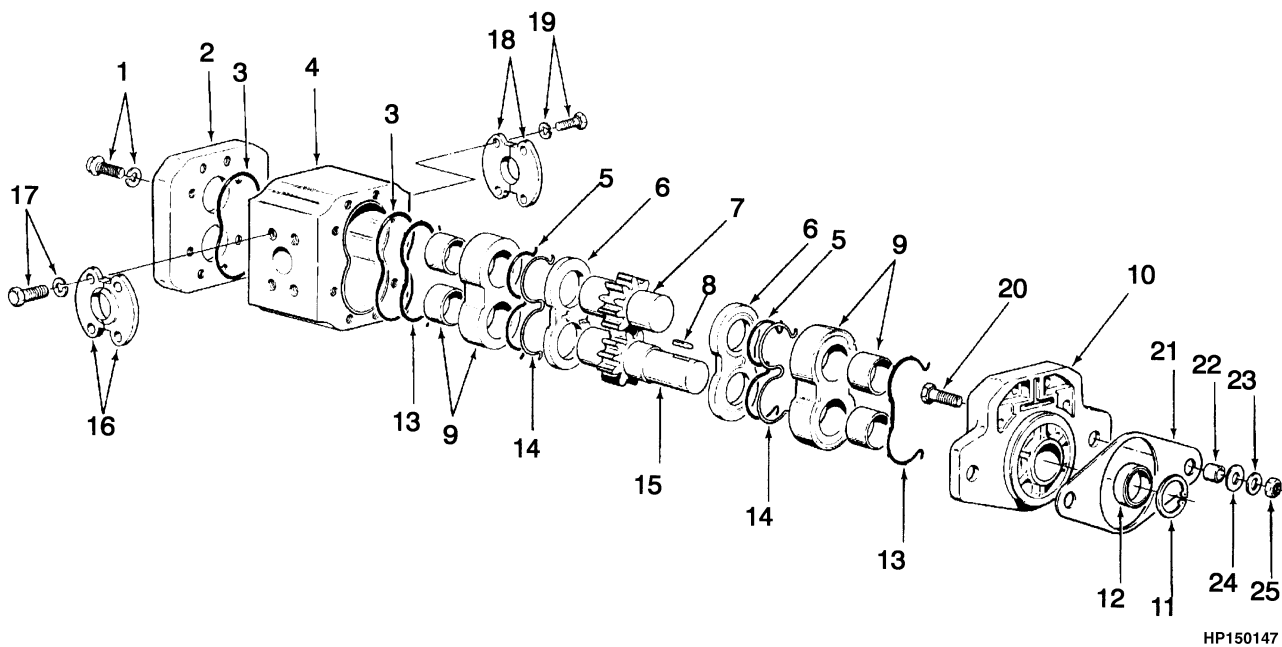
HP150146

CONTROL VALVE ATTACHING TUBES
(S/N F006D05628X → 3 WAY) (S/N F006D05656X → 4 WAY)

ITEM	PART NO.	DESCRIPTION	QTY
1	369552	Tube Assy	1
2	369556	Tube Assy	1
3	369555	Tube Assy	1
4	369557	Tube Assy	1
5	133203	Clamp	2
6	287851	Capscrew	2
7	292681	Lockwasher	2
8	377613	Tube Assy	2
9	377614	Tube Assy	2
10	17321	Fitting	4
11	339969	Grommet	4
12	369549	Tube Assy (Four Function)	1
13	369550	Tube Assy (Four Function)	1

HYDRAULIC PUMP (FIGURE 8-21)

PARTS SERVICE GRAM	
ITEM	GRAM
340219	J-A-3 (E)
1367711	

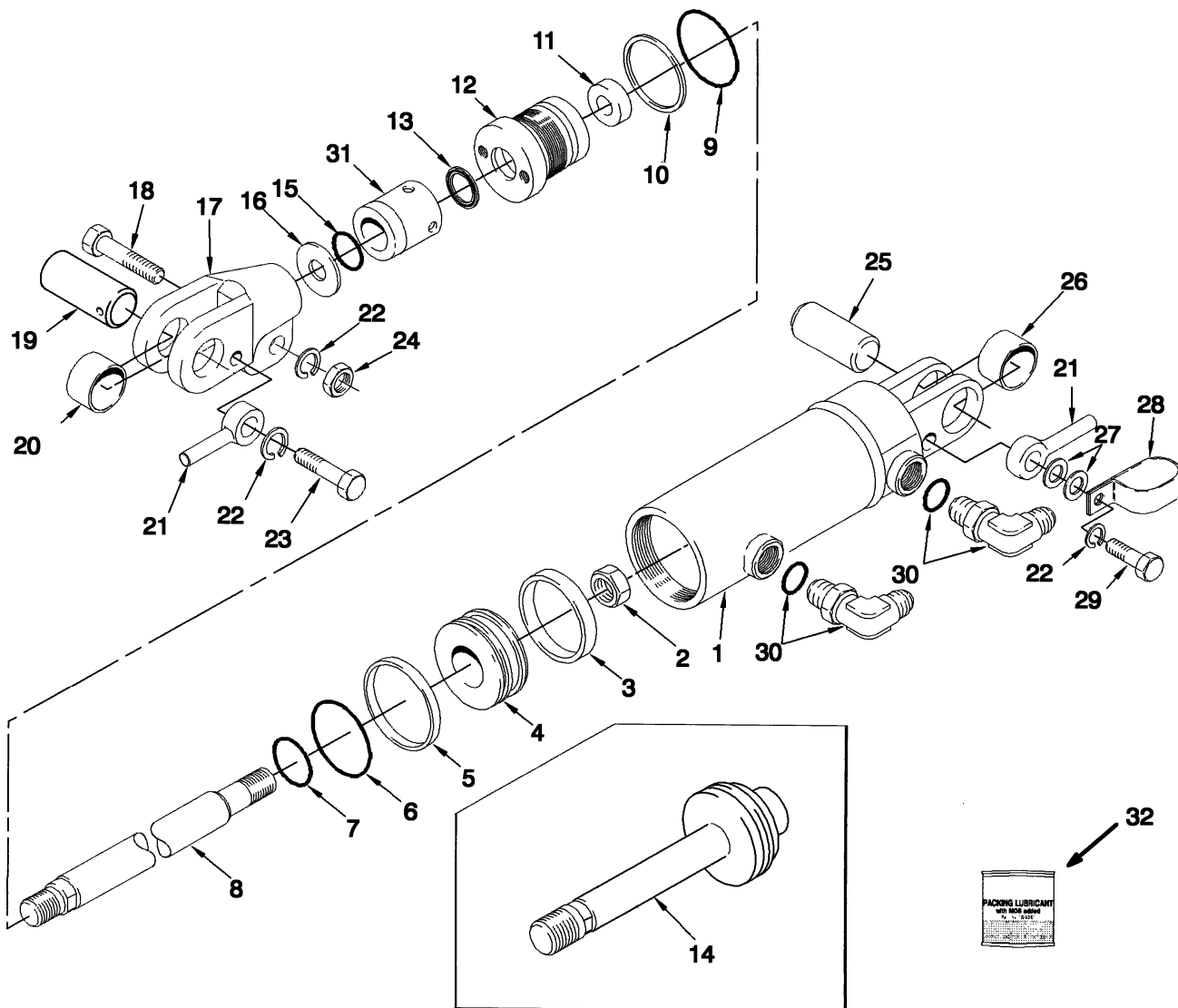


HYDRAULIC PUMP

ITEM	PART NO.	DESCRIPTION	QTY
	a 340219	Hydraulic Pump	1
	b 1367711	Hydraulic Pump	1
1		Bolt	8
1		Washer	8
2		Cover	1
3		Sealing Ring	2
4		Body	1
5		Ring	2
6		Plate	2
7		Driven Gear	1
8		Key	1
9		Bearing	2
10		Flange	1
11		Snap Ring	1
12		Seal	1
13		Ring	2
14		Ring	2
15		Drive Gear	1
16	17765	Clamp	2
17	15158	Washer	4
17	18588	Capscrew	4
18	190757	Clamp (Split Half)	2
19	15156	Lockwasher	4
19	16828	Capscrew	4
20	292529	Capscrew	2
21	182889	Mount	1
22	182891	Hose	2
23	320162	Washer	2
24	182890	Washer	2
25	300937	Nut	2
	b 1376881	Kit-Seal	1
	a 385402	Kit-Seal	1

FOOTNOTES:**a** → S/N F006D01736**b** S/N F006D01737 →

TILT CYLINDER (FIGURE 8-22)



HP150148

TILT CYLINDER

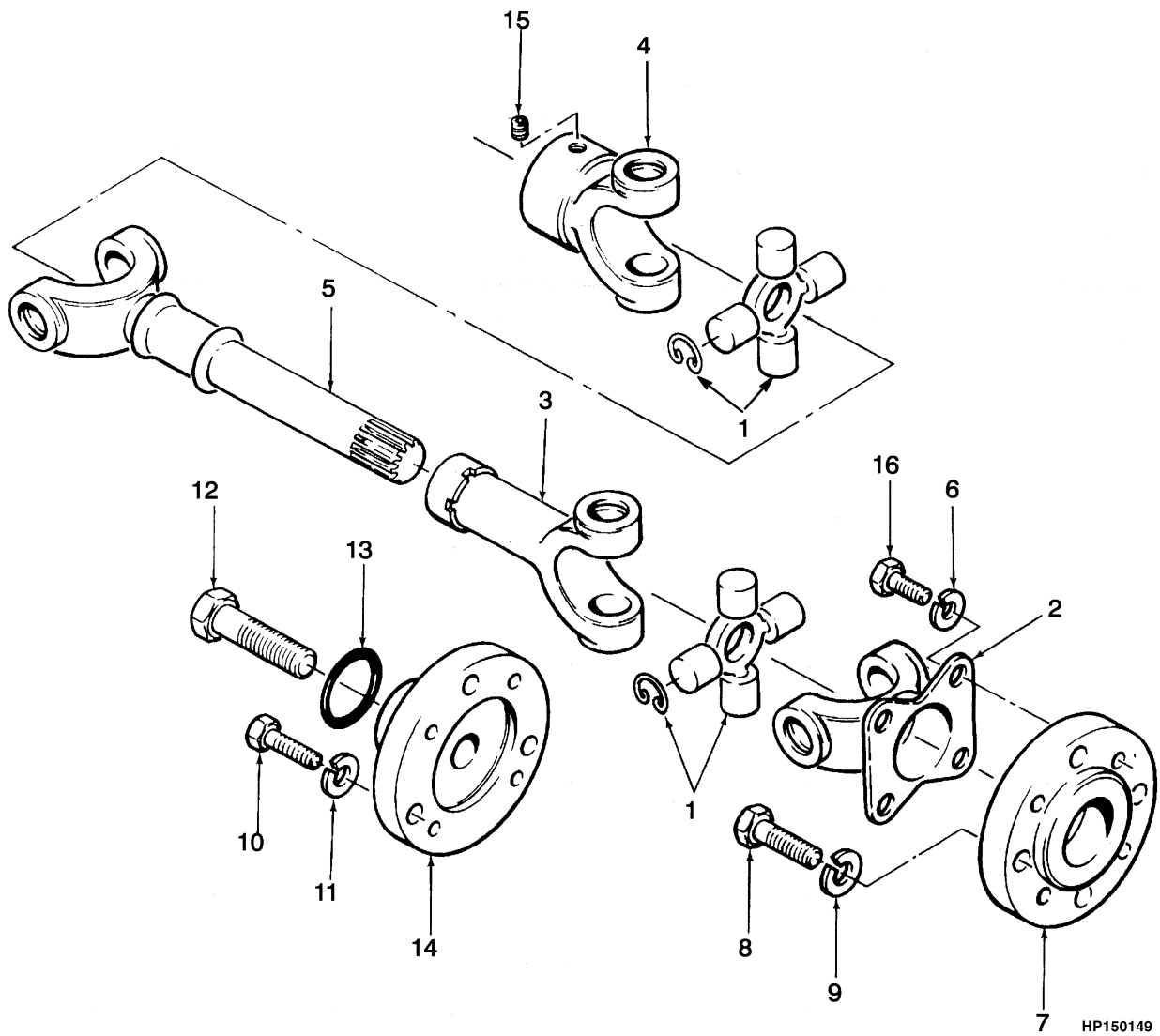
ITEM	PART NO.	DESCRIPTION	QTY
	c 340248	Tilt Cylinder	2
	de 2037392	Tilt Cylinder	2
1	de 2014714	Tube Wldmt-Cylinder	1
1	c 340249	Tube	1
2	b 2036547	Locknut	1
3	239182	Wear Ring	1
4	b 289968	Piston	1
5	1380887	Piston Seal	1
6	15883	O-Ring	1
7	b 199917	O-Ring	1
8	b 289967	Piston Rod	1
9	92482	O-Ring	1
10	1329756	Back-Up Ring	1
11	1381085	Rod Seal	1
12	289969	End Plug	1
13	193554	Rod Wiper	1
14	387058	Piston Rod	1
15	a 15869	O-Ring	2
16	a 1344751	Shim (0.029 in.)	AR
16	a 192830	Shim (0.060 in.)	AR
17	248462	Rod End	2
18	18590	Capscrew	2
19	248465	Pin	2
20	192429	Bushing	2
21	241079	Anchor	4
22	15158	Washer	6
23	169268	Capscrew	2
24	221711	Nut	2
25	248461	Pin	2
26	192429	Bushing	2
27	15135	Washer	AR
28	178794	Clamp	2
29	246195	Capscrew	2
30	16483	O-Ring	1
30	16558	Fitting	4
31	a 358259	Spacer	2
32	186061	Lubricant	AR
	1494726	Kit-Seal	1

FOOTNOTES:

a 5° Forward/5° Back
b Optional
c → S/N F006A01900

d S/N F006A01901 →
e S/N F006D01501 →

DRIVE SHAFT (FIGURE 8-23)



HP150149

DRIVE SHAFT**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	350055	Drive Shaft	..	1
	340218	Drive Shaft	1	..
1	278085	Kit-Shaft and Bearing	2	2
2	53065	Flange	1	1
3	1309409	Yoke	1	1
4	1300301	Yoke End	1	1
5		Yoke	1	1
6	b 15156	Lockwasher	4	4
7	b 350054	Adapter	..	1
8	b 35116	Capscrew	..	4
9	b 177948	Lockwasher	..	4
10	b 34811	Screw	3	..
11	b 177947	Lockwasher	3	..
12	b 221547	Capscrew	1	..
13	b 39373	O-Ring	1	..
14	a 340216	Plate	1	..
14	c 1378948	Plate	1	..
15	b 18886	Setscrew	1	1
16	b 16634	Capscrew	4	4
16	d 34811	Screw	4	4

FOOTNOTES:**a** → S/N F006D02202**b** → S/N F006D05389**c** S/N F006D02203 ↔ S/N F006D05389**d** 8/2004 →

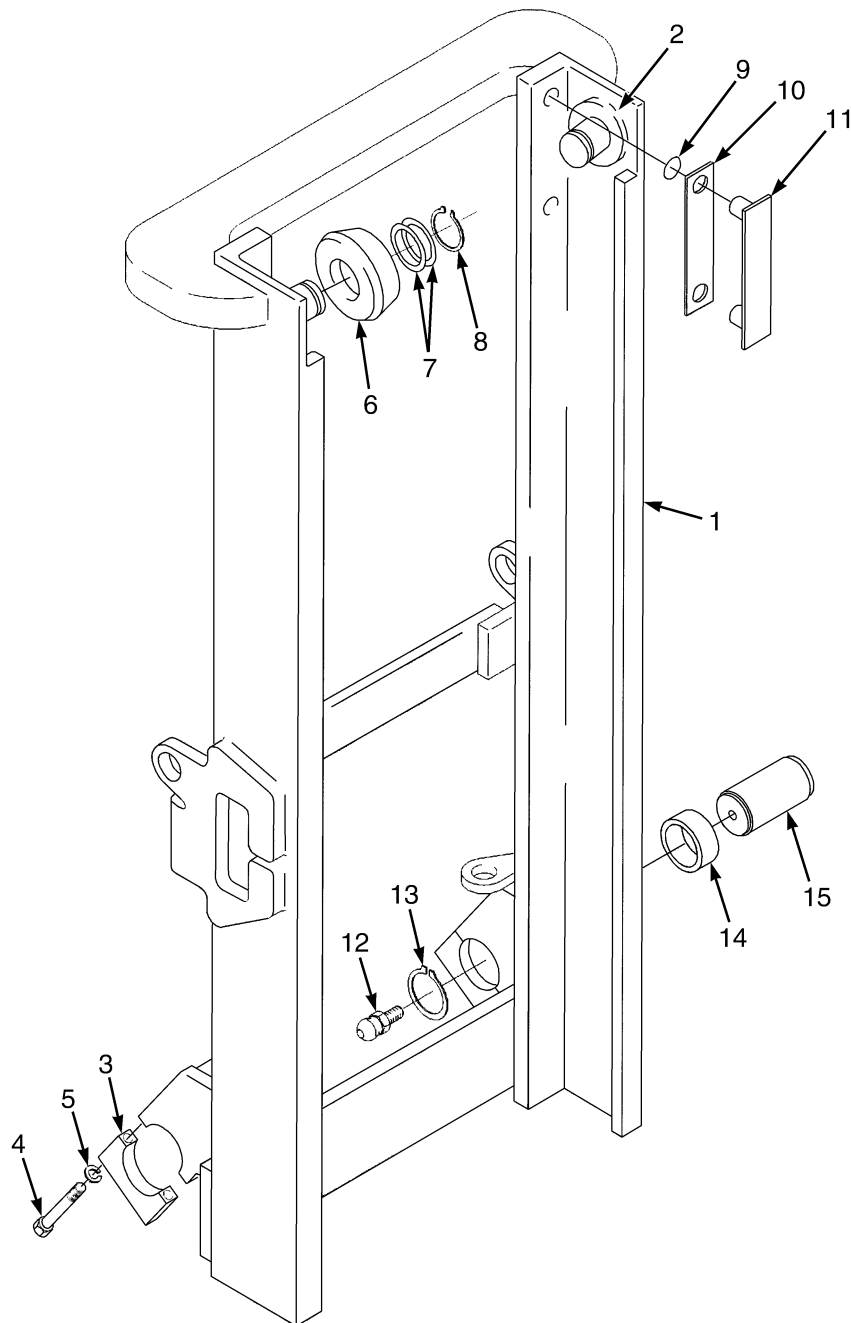
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SECTION 9

MAST-TWO STAGE LIMITED FREE-LIFT

DESCRIPTION	PAGE
CARRIAGE	
PIN TYPE - TWO STAGE LIMITED FREE-LIFT	9-20
FREE LIFT CYLINDER ASSEMBLY	
TWO STAGE LIMITED FREE-LIFT (2/2001 →)	9-18
FREE-LIFT	
TWO STAGE LIMITED FREE-LIFT (2/2001 →)	9-14
HEADER HOSE	
TWO STAGE LIMITED FREE-LIFT	9-24
INNER MAST	
TWO STAGE LIMITED FREE-LIFT (→ 2/2001)	9-6
TWO STAGE LIMITED FREE-LIFT (2/2001 →)	9-8
MAIN LIFT	
TWO STAGE LIMITED FREE-LIFT (→ 2/2001)	9-10
MAIN LIFT CYLINDER	
TWO STAGE LIMITED FREE-LIFT (→ 2/2001)	9-16
OUTER MAST	
TWO STAGE LIMITED FREE-LIFT (→ 2/2001)	9-2
TWO STAGE LIMITED FREE-LIFT (2/2001 →)	9-4

OUTER MAST (FIGURE 9-1) TWO STAGE LIMITED FREE-LIFT (→ 2/2001)



YP170085

OUTER MAST **TWO STAGE LIMITED FREE-LIFT (→ 2/2001)**

A513

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340	A513 5940
	Mast Assy	341063	341064	341065	341066	356576
1	Outer Mast	1493287	1493289	1493291	1493293	1493295

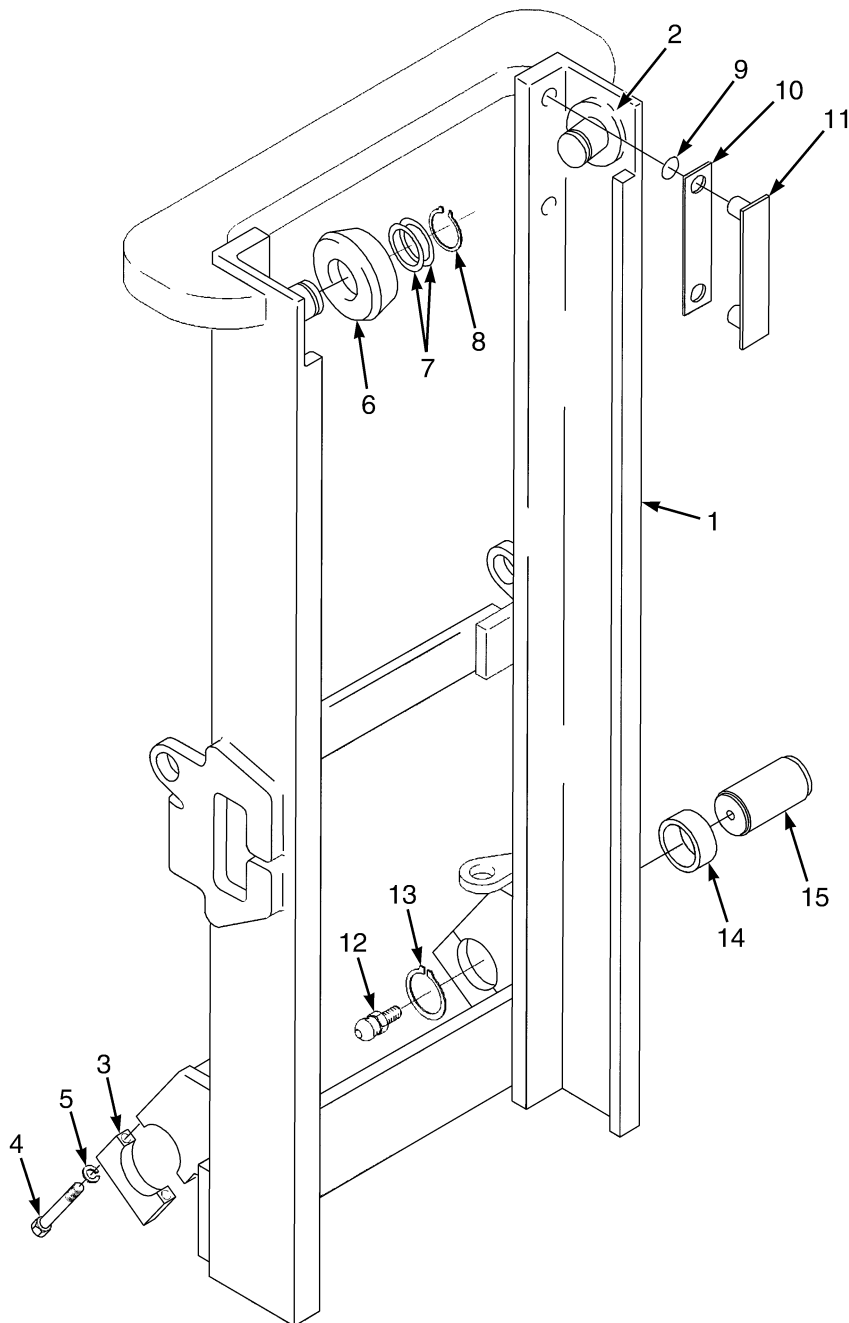
ITEM	PART NO.	DESCRIPTION	QTY
	c	Mast Assy	1
1	c	Outer Mast	1
2	341144	Stubshaft	2
3		Hanger	2
4	292570	Capscrew	2
5	292685	Lockwasher	2
6	a 1333649	Load Roller ("A") (126.75/126.49) ("A") (Standard)	2
6	a 1343002	Load Roller ("B") (127.51/127.25) ("B") (0,76 mm)	AR
6	a 1343003	Load Roller ("C") (128.27/128.01) ("C") (1,52 mm)	AR
7	126765	Shim	AR
8	187489	Snap Ring	2
9	104506	O-Ring	4
10	b 161272	Shim (0.007 in.)	AR
10	161273	Shim (0.020 in.) (0,51 mm)	AR
11	104264	Wear Strip	2
12	16005	Grease Fitting	2
12	b 16009	Grease Fitting	2
13	12940	Snap Ring	2
14	115069	Bushing	2
15	114841	Pin	2

FOOTNOTES:

a Letter on Inside Face
b Optional

c Refer to Table

OUTER MAST (FIGURE 9-2) TWO STAGE LIMITED FREE-LIFT (2/2001 →)



YP170085

OUTER MAST **TWO STAGE LIMITED FREE-LIFT (2/2001 →)**

A513

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340
	Mast Assy	2044486	2044487	2044488	2044489
1	Outer Mast	1493287	1493289	1493291	1493293

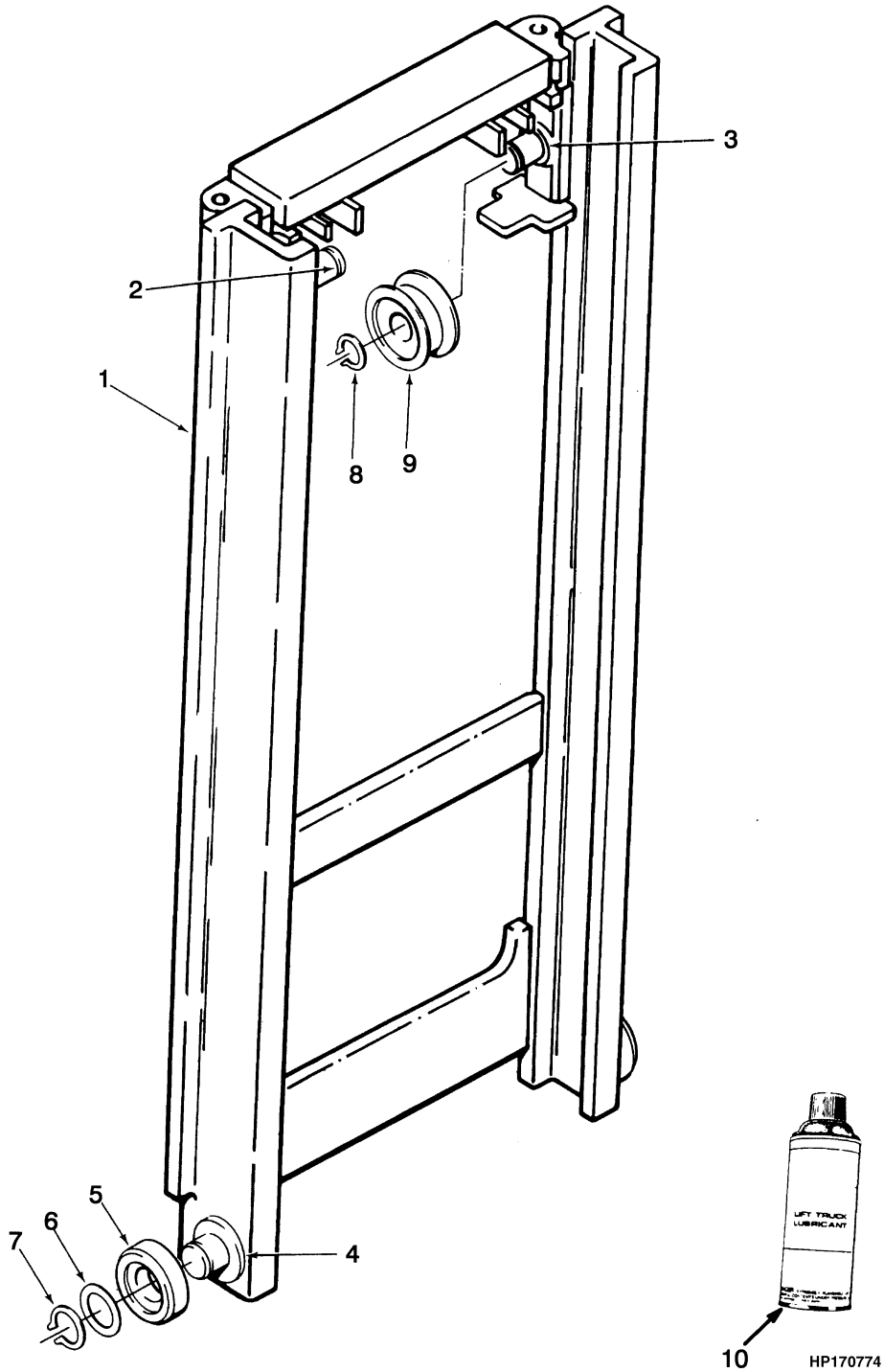
ITEM	PART NO.	DESCRIPTION	QTY
	c	Mast Assy	1
1	c	Outer Mast	1
2	341144	Stubshaft	2
3	369441	Cap	2
4	292570	Capscrew	2
5	292685	Lockwasher	2
6	a 1333649	Load Roller ("A") (126.75/126.49)	2
6	a 1343002	Load Roller ("B") (127.51/127.25)	AR
6	a 1343003	Load Roller ("C") (128.27/128.01)	AR
7	126765	Shim	AR
8	187489	Snap Ring	2
9	104506	O-Ring	4
10	b 161272	Shim (0.007 in.)	AR
10	161273	Shim (0.020 in.) (0,51 mm)	AR
11	104264	Wear Strip	2
12	16005	Grease Fitting	2
12	b 16009	Grease Fitting	2
13	12940	Snap Ring	4
14	115069	Bushing	4
15	114841	Pin	2

FOOTNOTES:

a Letter on Inside Face
b Optional

c Refer to Table

INNER MAST (FIGURE 9-3) TWO STAGE LIMITED FREE-LIFT (→ 2/2001)



INNER MAST **TWO STAGE LIMITED FREE-LIFT (→ 2/2001)**

A513

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340	A513 5940
	Mast Assy	341063	341064	341065	341066	356576
1	Inner Mast	341116	341117	341118	346961	356582

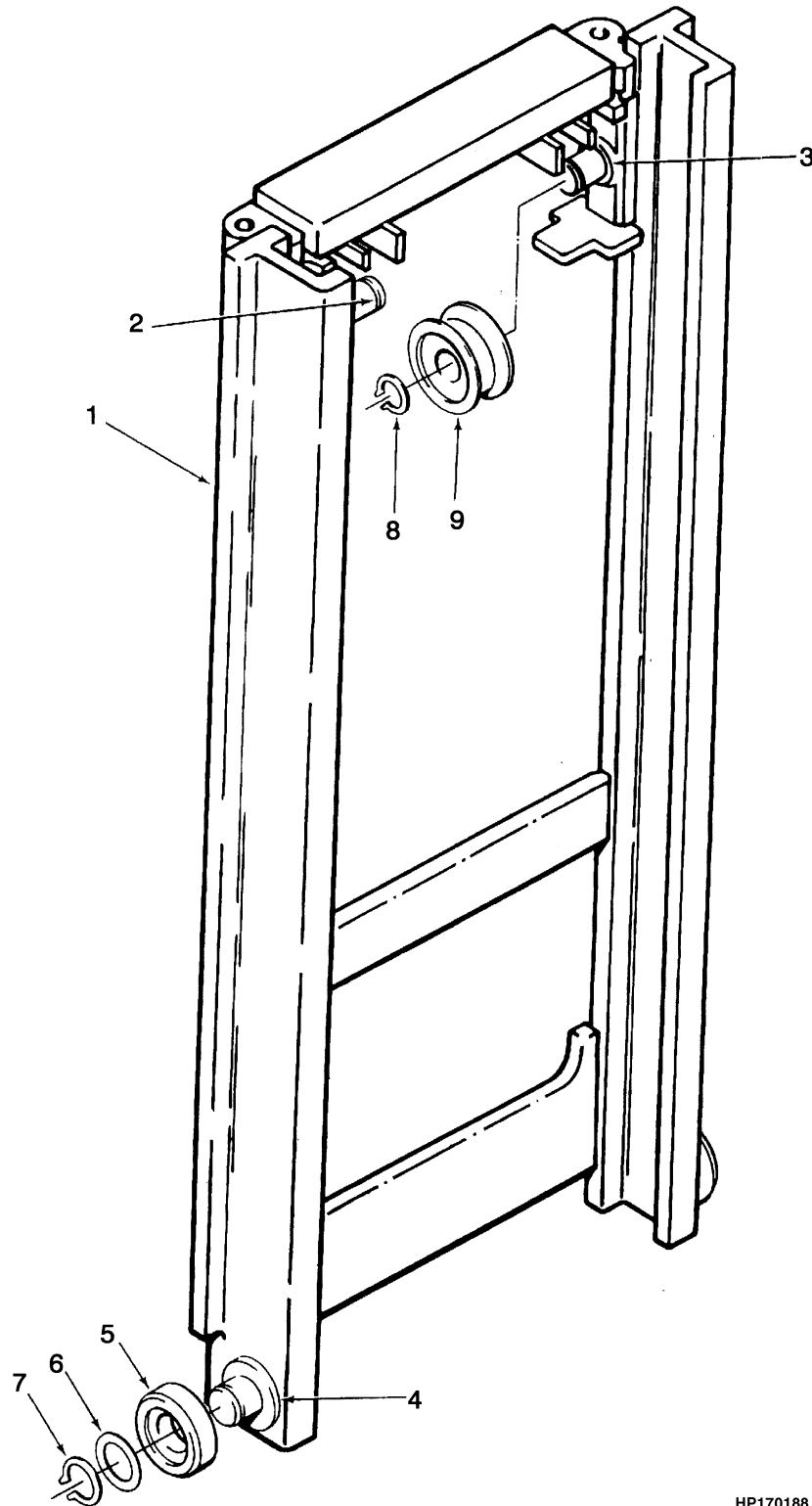
ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Inner Mast	1
2	369431	Stubshaft	1
3	369432	Stubshaft	1
4	341144	Stubshaft	2
5	a 1333649	Load Roller ("A") (126.75/126.49) ("A") (Standard)	2
5	a 1343002	Load Roller ("B") (127.51/127.25) ("B") (0.030 in.)	AR
5	a 1343003	Load Roller ("C") (128.27/128.01) ("C") (0.060 in.)	AR
6	126765	Shim	AR
7	187489	Snap Ring	2
8	58939	Snap Ring	2
9	346906	Chain Sheave	2
10	171351	Lubricant	AR

FOOTNOTES:

a Letter on Inside Face

b Refer to Table

INNER MAST (FIGURE 9-4) TWO STAGE LIMITED FREE-LIFT (2/2001 →)



HP170188

INNER MAST **TWO STAGE LIMITED FREE-LIFT (2/2001 →)**

A513

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340
	Mast Assy	2044486	2044487	2044488	2044489
1	Inner Mast	341116	341117	341118	346961

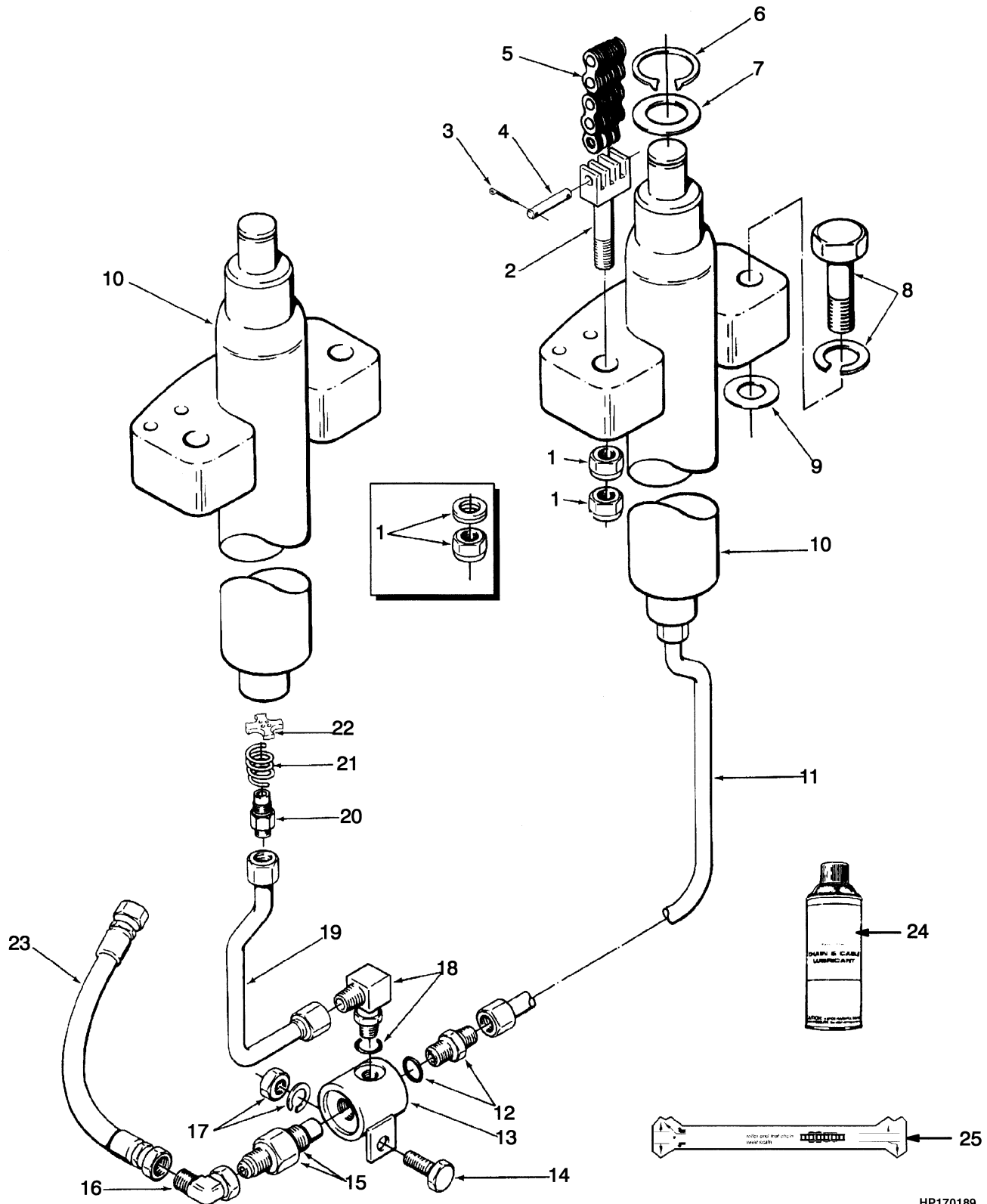
ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Inner Mast	1
2	369431	Stubshaft	1
3	369432	Stubshaft	1
4	341144	Stubshaft	2
5	a 1333649	Load Roller ("A") (126.75/126.49)	2
5	a 1343002	Load Roller ("B") (127.51/127.25)	2
5	a 1343003	Load Roller ("C") (128.27/128.01)	2
6	126765	Shim	AR
7	187489	Snap Ring	2
8	58939	Snap Ring	2
9	346906	Chain Sheave	2

FOOTNOTES:

a Letter on Inside Face

b Refer to Table

MAIN LIFT (FIGURE 9-5) TWO STAGE LIMITED FREE-LIFT (→ 2/2001)



HP170189

MAIN LIFT
TWO STAGE LIMITED FREE-LIFT (→ 2/2001)**A513**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340	A513 5940
	Mast Assy	341063	341064	341065	341066	356576
5	Chain	341122	341123	341124	341053	356593

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	d 293723	Nut	4
1	c 302406	Locknut	2
1	343946	Kit-Washer	2
2	1331992	Chain Anchor	2
3	15222	Cotter Pin	4
4	1307395	Pin	2
5	a	Chain	2
6	304523	Snap Ring	2
7	296438	Washer	2
8	292608	Capscrew	2
8	292689	Washer	2
9	1325119	Shim	AR
9	134675	Shim	AR
10		Lift Cylinder (☞ Figure 9-7).....	2
11	b 341050	Tube Assy (LH)	1
12	16542	Connector	1
12	16485	O-Ring	1
13	366501	Junction Block	1
14	292519	Capscrew	1
15	346971	Lowering Control Valve	1
15	16983	O-Ring	1
16	16992	Fitting	1
17	316826	Nut	1
17	320160	Washer	2
18	16560	Fitting	1
18	16485	O-Ring	1
19	b 341051	Tube Assy (RH)	1
20	184799	Fitting	2
21	388186	Spring	2
22	356598	Washer	2
23	341055	Hose Assy	1
24	171350	Lubricant	AR
25	599737	Chain Wear Scale	AR

FOOTNOTES:

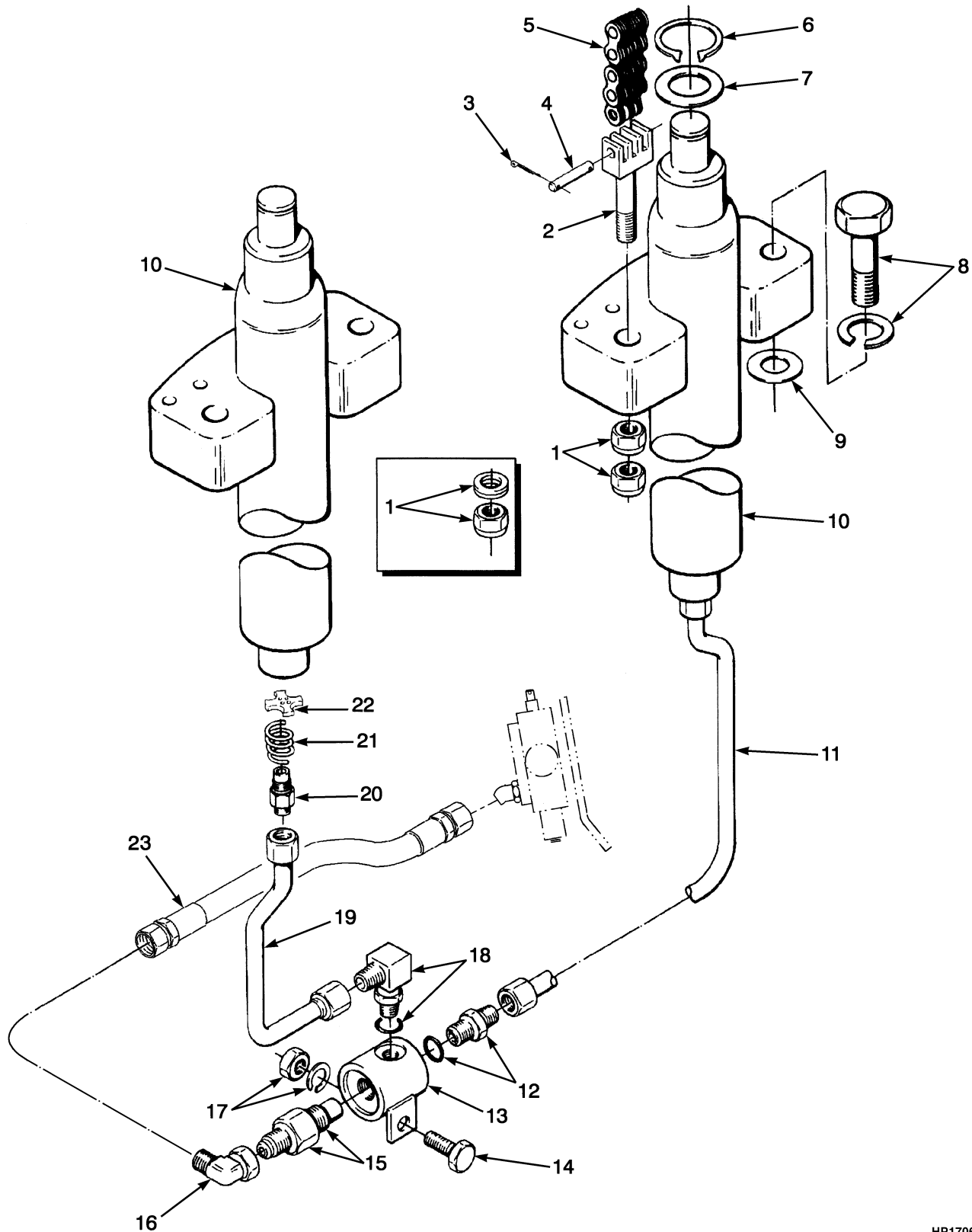
a Refer to Table
b → 6/2002

c → S/N A513A04284
d S/N A513A04285 →

NOTES

[illegible]

FREE-LIFT (FIGURE 9-6) TWO STAGE LIMITED FREE-LIFT (2/2001 →)



HP170619

FREE-LIFT
TWO STAGE LIMITED FREE-LIFT (2/2001 →)**A513**

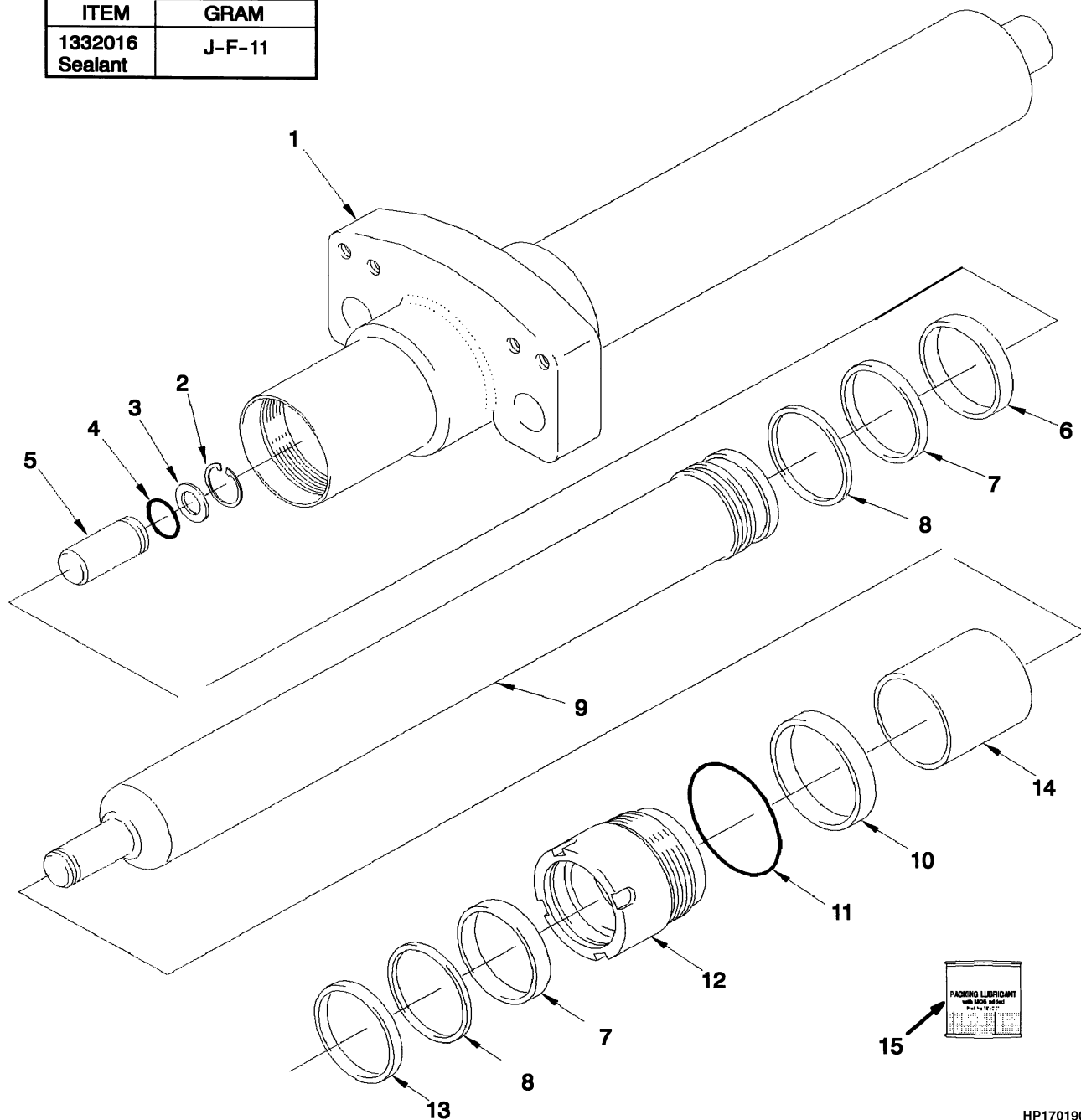
ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340
	Mast Assy	2044486	2044487	2044488	2044489
5	Chain	341122	341123	341124	341053

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	293723	Nut	4
1	343946	Kit-Washer	2
2	1331992	Chain Anchor	2
3	15222	Cotter Pin	4
4	1307395	Pin	2
5	a	Chain	2
6	304523	Snap Ring	2
7	296438	Washer	2
8	292608	Capscrew	2
8	292689	Washer	2
9	1325119	Shim	AR
9	134675	Shim	AR
10		Lift Cylinder (☞ Figure 9-8).....	2
11	1485325	Tube Assy (LH)	1
12	16542	Connector	1
12	16485	O-Ring	1
13	366501	Junction Block	1
14	292519	Capscrew	1
15	346971	Lowering Control Valve	1
15	16983	O-Ring	1
16	16992	Fitting	1
17	316826	Nut	1
17	320160	Washer	2
18	16560	Fitting	1
18	16485	O-Ring	1
19	1485324	Tube Assy	1
20	184799	Fitting	2
21	388186	Spring	2
22	356598	Washer	2
23	341055	Hose Assy	1

FOOTNOTES:**a** Refer to Table

MAIN LIFT CYLINDER (FIGURE 9-7) TWO STAGE LIMITED FREE-LIFT (→ 2/2001)

PARTS SERVICE GRAM	
ITEM	GRAM
1332016 Sealant	J-F-11



HP170190

MAIN LIFT CYLINDER
TWO STAGE LIMITED FREE-LIFT (→ 2/2001)**A513**

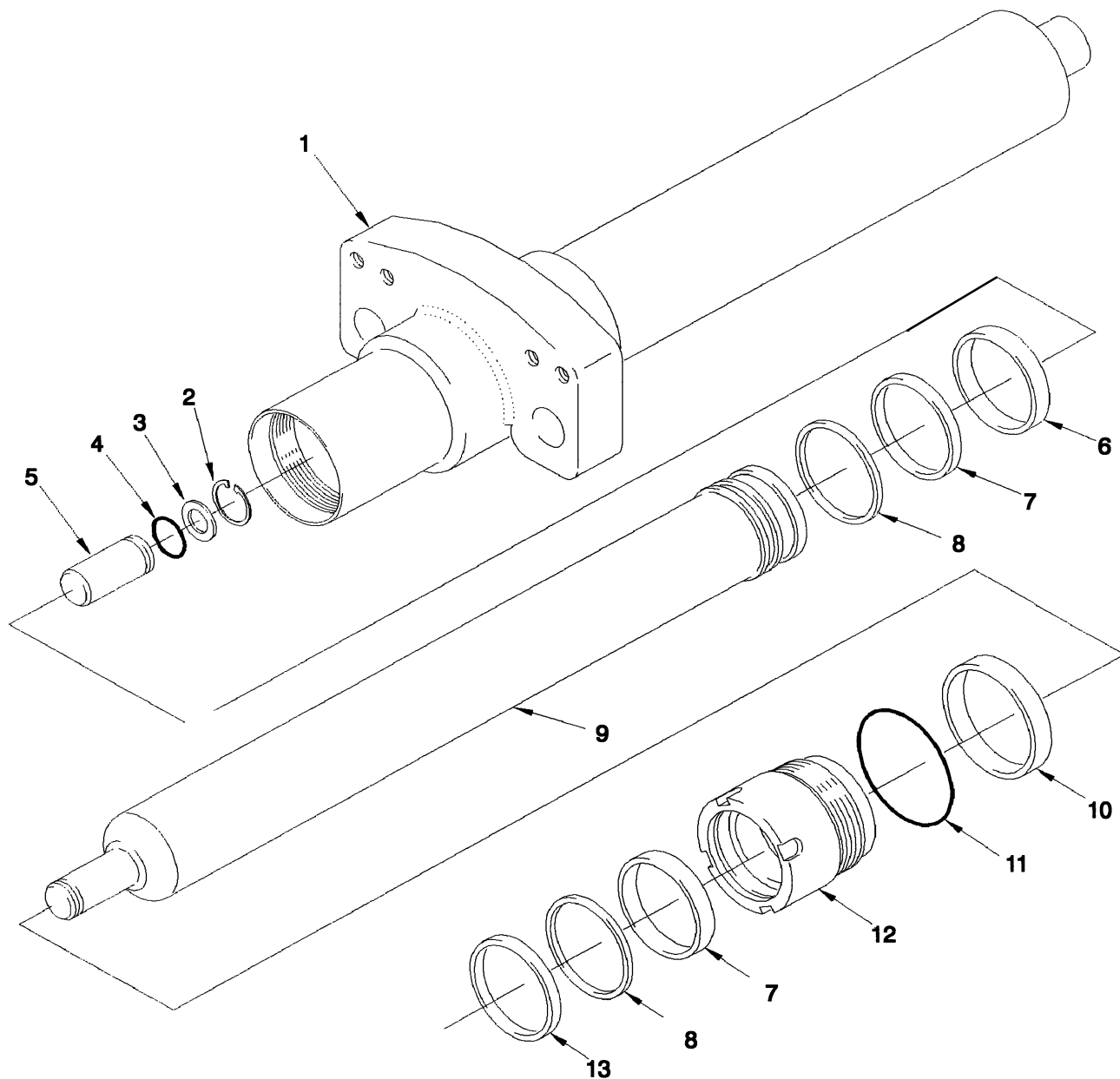
ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340	A513 5940
	Cylinder Group Number	8504261	8504262	8504263	8504264	8504265
	Cylinder Assy	1331994	1331995	1331996	1331997	1331998
1	Tube Wldmt- Cylinder	341331	341332	341333	346916	356588
9	Cylinder Rod	341340	341341	341342	346917	356591
14	Spacer	----	----	----	----	332569

ITEM	PART NO.	DESCRIPTION	QTY
	c	Cylinder Assy	1
1	c	Tube Wldmt-Cylinder	1
2	187388	Snap Ring	1
3	297531	Washer	1
3	637635	Washer (Optional)	1
4	39348	O-Ring	1
5	658947	Kit-Check Valve	1
6	215345	Wear Ring	1
7	309062	Rod Seal	2
8	637565	Back-Up Ring	2
9	c	Cylinder Rod	1
10	316513	Wear Ring	1
11	15880	O-Ring	1
12	1331993	Retainer	1
13	1314311	Rod Wiper	1
14	c	Spacer	1
15	186061	Lubricant	AR
	a 1332016	Kit-Seal	1
	b 1332017	Kit-Seal	1

FOOTNOTES:

- a** Converts Early Cylinders to Retainer 1331993 **c** Refer to Table
b For Cylinders First Used on Mast S/N
A513D-2316, A513A-4246

FREE LIFT CYLINDER ASSEMBLY (FIGURE 9-8) TWO STAGE LIMITED FREE-LIFT (2/2001 →)



HP170618

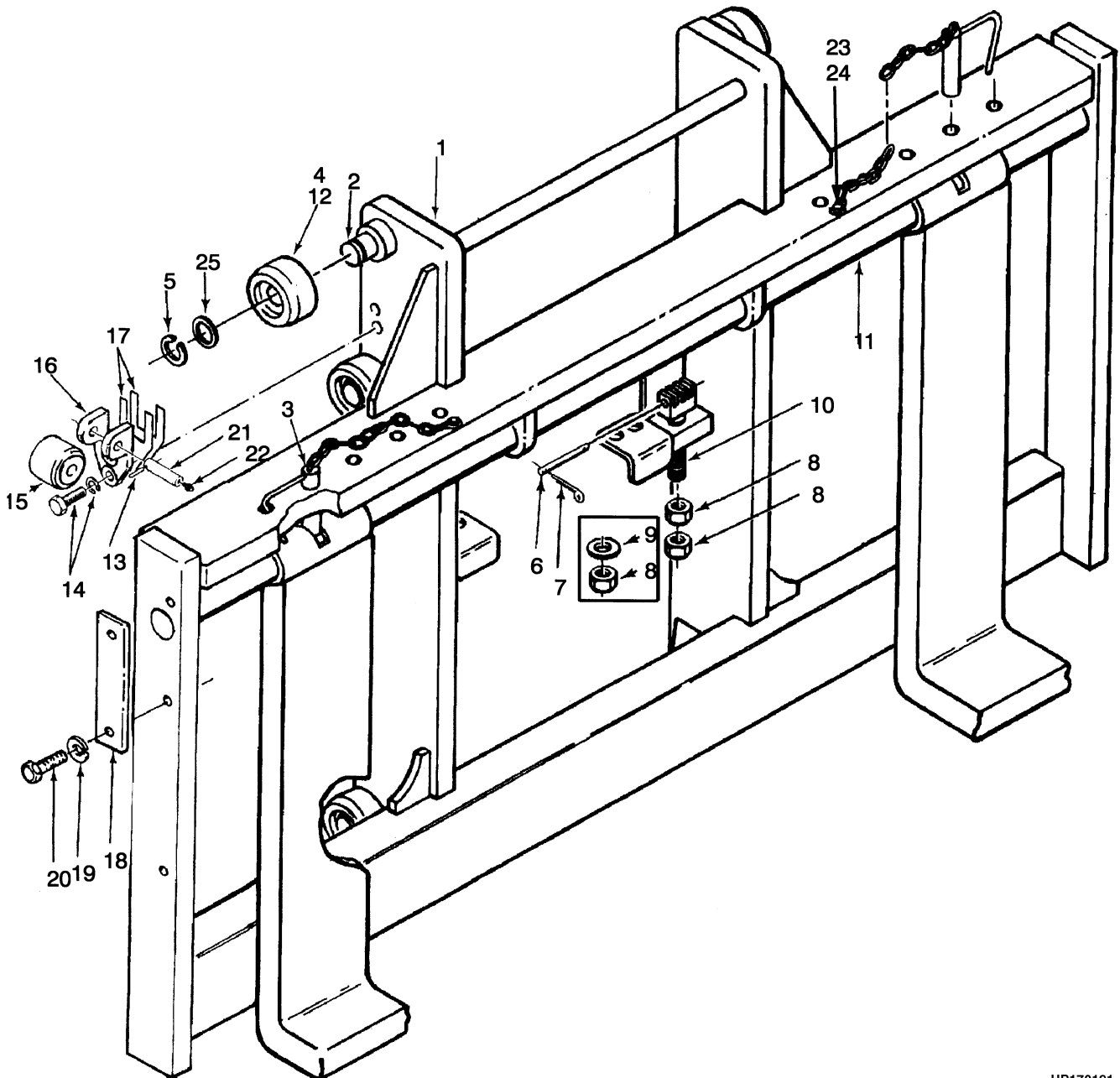
FREE LIFT CYLINDER ASSEMBLY
TWO STAGE LIMITED FREE-LIFT (2/2001 →)**A513**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340
	Cylinder Group Number	8504261	8504262	8504263	8504264
	Cylinder Assy	1331994	1331995	1331996	1331997
1	Tube Wldmt- Cylinder	341331	341332	341333	346916
9	Cylinder Rod	341340	341341	341342	346917

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	2
1	a	Tube Wldmt-Cylinder	1
2	187388	Snap Ring	1
3	297531	Washer	1
3	637635	Washer (Optional)	1
4	39348	O-Ring	1
5	257913	Check Valve	1
6	215345	Wear Ring	1
7	309062	Rod Seal	2
8	637565	Back-Up Ring	2
9	a	Cylinder Rod	1
10	316513	Wear Ring	1
11	15880	O-Ring	1
12	1331993	Retainer	1
13	1314311	Rod Wiper	1
	1332017	Kit-Seal	1

FOOTNOTES:**a** Refer to Table

CARRIAGE (FIGURE 9-9) PIN TYPE — TWO STAGE LIMITED FREE-LIFT



HP170191

CARRIAGE

PIN TYPE – TWO STAGE LIMITED FREE-LIFT

KEY:**A: 1523 mm Carriage****B: 1980 mm Carriage (Early Production)****C: 1980 mm Carriage (Recent Production)**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
	1318162	Carriage (78 in.)	..	..	1
	346973	Carriage	1	..	..
	346974	Carriage	..	1	..
1	1318167	Carriage Wldmt	..	..	1
1	346968	Carriage Wldmt	1	..	..
1	346969	Frame	..	1	..
2	341144	Stubshaft	6	6	6
3	1331269	Pin	..	..	2
3	270661	Pin	..	2	..
3	270979	Pin	2	..	..
4	126765	Shim	AR	AR	AR
5	187489	Snap Ring	6	6	6
6	1307395	Pin	2	2	2
7	15222	Cotter Pin	4	4	4
8	d 293723	Nut	4	4	4
8	c 302406	Locknut	2	2	2
9	343946	Kit-Washer	2	2	2
10	1331992	Chain Anchor	2	2	2
11	1330064	Pin	..	..	2
11	346997	Pin	2	..	..
11	346998	Pin	..	2	..
12	a 1343010	Load Roller ("B") (104.44/104.18) ("B") (0.030 in.)	AR	AR	AR
12	a 1343011	Load Roller ("C") (105.20/104.94) ("C") (0.060 in.)	AR	AR	AR
12	a 1333648	Load Roller ("A") (103.68/103.42) ("A") (Standard)	6	6	6
13	b 66333	Roll Pin	2	2	2
14	b 4048814				
	292528	Capscrew	4	4	4
14	b 292683	Lockwasher	4	4	4
15	b 244005	Side Roller	2	2	2
16	b 244008	Bracket	2	2	2
17	b 192424	Shim (0.030 in.)	AR	AR	AR
17	b 192425	Shim (0.062 in.)	AR	AR	AR
18	66468	Plate	2	2	2
19	292685	Lockwasher	4	4	4
20	226458	Capscrew	4	4	4
21	b 244009	Pin	2	2	2
22	b 16001	Grease Fitting	2	2	2
23	292513	Capscrew	2	2	2
24	296420	Washer	2	2	2
25	366116	Spacer	2	2	2

FOOTNOTES:

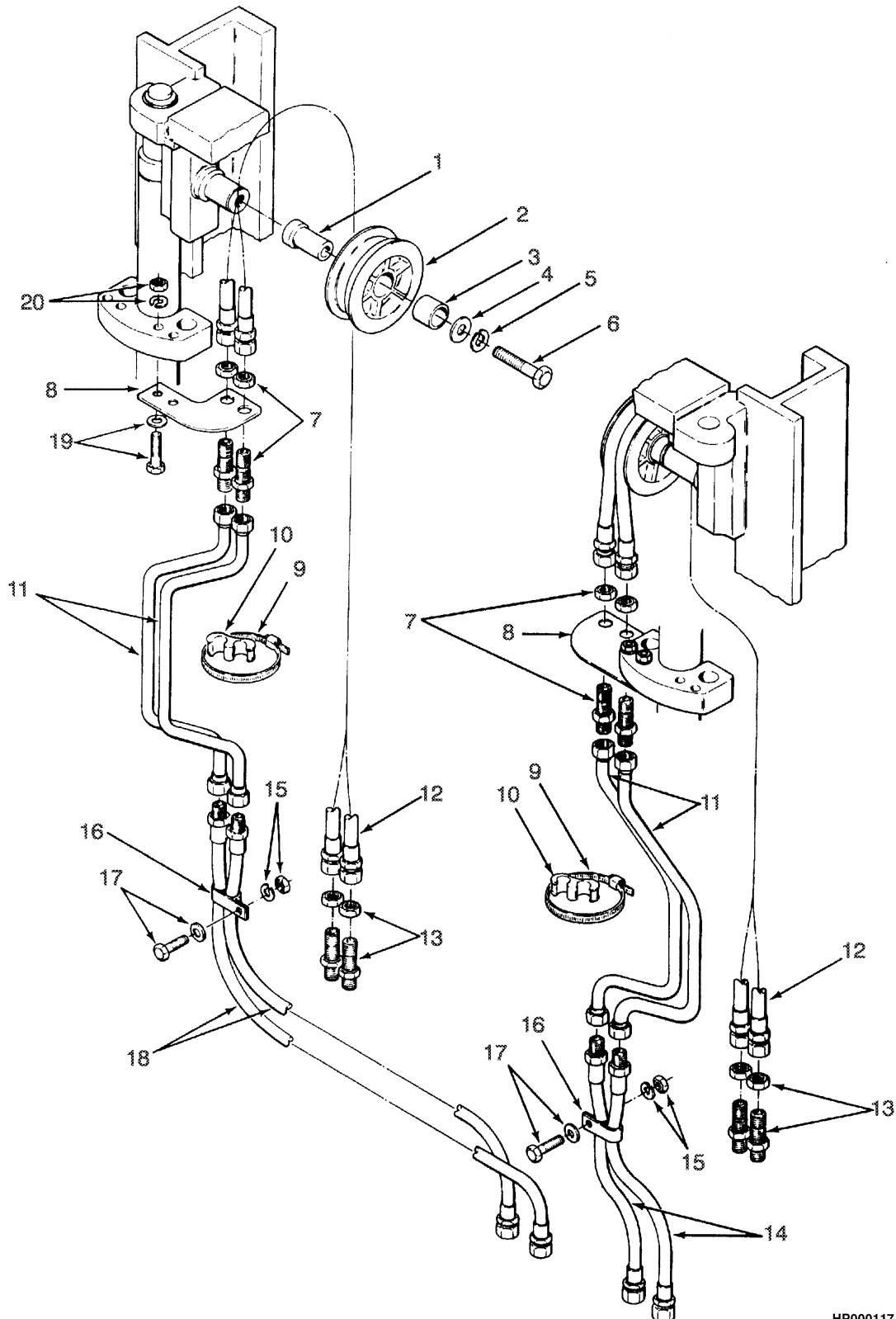
a Letter on Inside Face
b Optional

c → S/N A513A04284
d S/N A513A04285 →

NOTES

[illegible]

HEADER HOSE (FIGURE 9-10) TWO STAGE LIMITED FREE-LIFT



HP000117

**HEADER HOSE
TWO STAGE LIMITED FREE-LIFT****A513**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340	A513 5940
11	Tube Assy	341058	341059	341060	341061	356595
12	Hose Assy	358261	358240	358262	341074	356594

KEY:**A: Three Function****B: Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	357529	Stubshaft	1	2
2	1332705	Hose Sheave	1	2
3	332057	Bushing	1	1
4	320162	Washer	1	2
5	292683	Lockwasher	1	2
6	292535	Capscrew	1	2
7	16449	Fitting	2	4
8	369426	Plate	1	2
9	a 78286	Clamp	2	4
9	b 78286	Clamp	3	6
10	a 340054	Spacer	2	4
10	b 340054	Spacer	3	6
11	c	Tube Assy	2	4
12	c	Hose Assy	2	4
13	16448	Fitting (Pin Type)	2	4
14	1302636	Hose Assy	2	2
15	302401	Locknut	1	2
15	320160	Washer	1	2
16	176454	Clamp	1	2
17	15178	Washer	1	2
17	292517	Capscrew	1	2
18	1302637	Hose Assy	..	2
19	15178	Washer	2	4
19	292522	Capscrew	2	4
20	302401	Locknut	2	4
20	320160	Washer	2	4

FOOTNOTES:

- a** 2340 mm (92.0 in.) Lift Height and 3340 mm (131.5 in.) Lift Height **c** Refer to Table
- b** 4340 mm (171.0 in.) Lift Height and Above

[illegible]

10

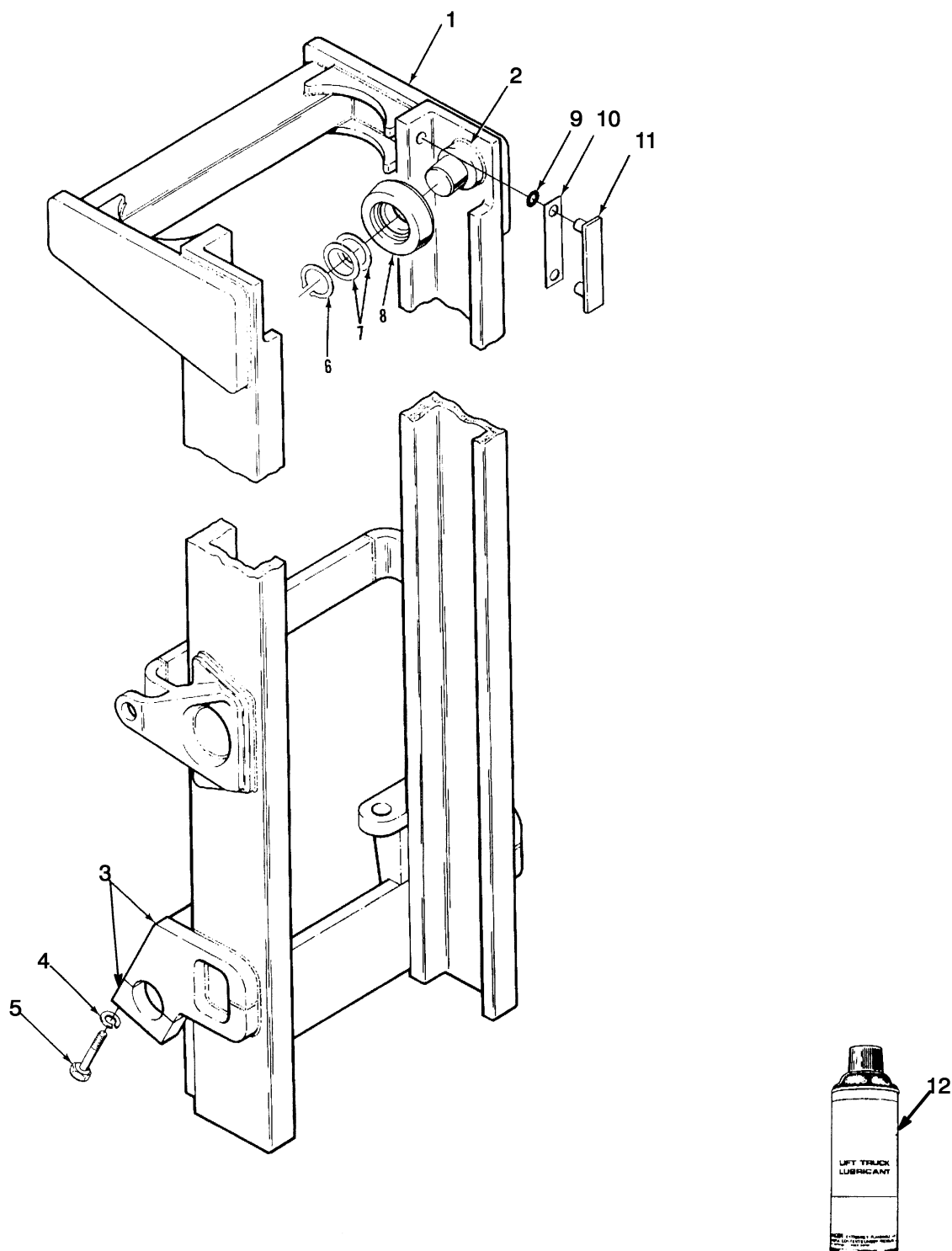
MAST-THREE STAGE FULL FREE-LIFT

SECTION 10

MAST-THREE STAGE FULL FREE-LIFT

DESCRIPTION	PAGE
CARRIAGE	
PIN TYPE - THREE STAGE FULL FREE-LIFT	10-36
FREE-LIFT	
THREE STAGE FULL FREE-LIFT (→ 2/2001)	10-22
THREE STAGE FULL FREE-LIFT (2/2001 →)	10-26
FREE-LIFT CYLINDER	
THREE STAGE FULL FREE-LIFT	10-34
HEADER HOSE	
THREE STAGE FULL FREE-LIFT	10-40
INNER MAST	
THREE STAGE FULL FREE-LIFT (→ 2/2001)	10-10
THREE STAGE FULL FREE-LIFT (2/2001 →)	10-12
INTERMEDIATE MAST	
THREE STAGE FULL FREE-LIFT (→ 2/2001)	10-6
THREE STAGE FULL FREE-LIFT (2/2001 →)	10-8
MAIN LIFT	
THREE STAGE FULL FREE-LIFT (→ 2/2001)	10-14
THREE STAGE FULL FREE-LIFT (2/2001 →)	10-18
MAIN LIFT CYLINDER	
THREE STAGE FULL FREE-LIFT	10-30
OUTER MAST	
THREE STAGE FULL FREE-LIFT (→ 2/2001)	10-2
THREE STAGE FULL FREE-LIFT (2/2001 →)	10-4

OUTER MAST (FIGURE 10-1) THREE STAGE FULL FREE-LIFT (→ 2/2001)



HP170193

OUTER MAST **THREE STAGE FULL FREE-LIFT (→ 2/2001)**

A514

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
	Mast Assy	1307381	1307382	1313813	1313814
1	Outer Mast	362956	362957	362958	383804

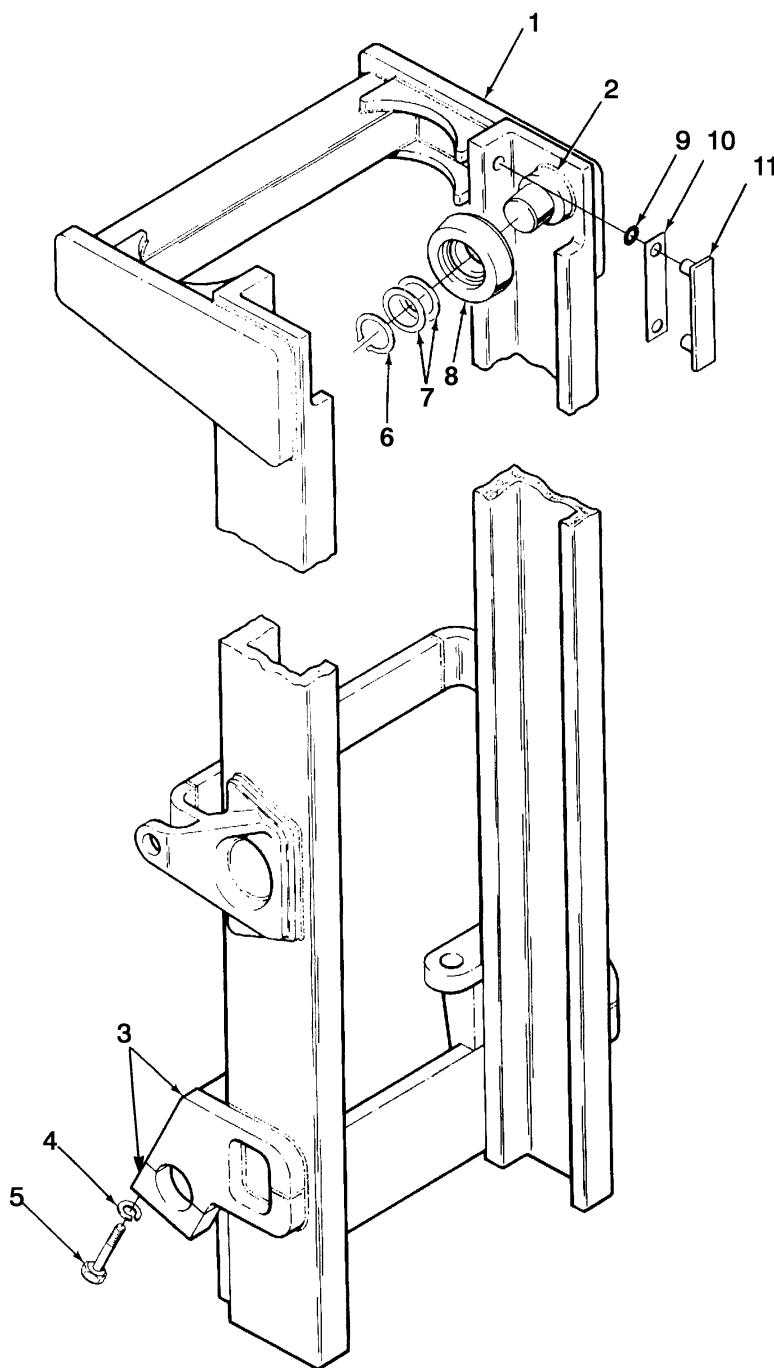
ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Outer Mast	1
2	341144	Stubshaft	2
3	369448	Hanger	2
4	296426	Washer	2
5	292570	Capscrew	2
6	187489	Snap Ring	2
7	126765	Shim	AR
8	a 1333649	Load Roller ("A") (126.75/126.49) ("A") (Standard)	2
8	a 1343002	Load Roller ("B") (127.51/127.25) ("B") (0.030 in.)	AR
8	a 1343003	Load Roller ("C") (128.27/128.01) ("C") (0.060 in.)	AR
9	104506	O-Ring	4
10	161272	Shim (0.007 in.) (Optional)	AR
10	161273	Shim (0.020 in.)	AR
11	104264	Wear Strip	2
12	171351	Lubricant	AR
	115069	Bushing (Not Illustrated)	2
	248465	Pin (Not Illustrated)	2

FOOTNOTES:

a Letter on Inside Face

b Refer to Table

OUTER MAST (FIGURE 10-2) THREE STAGE FULL FREE-LIFT (2/2001 →)



HP170634

OUTER MAST **THREE STAGE FULL FREE-LIFT (2/2001 →)**

A514

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
	Mast Assy	2044527	2044528	2044529	2044530
1	Outer Mast	1493517	1493519	1493520	1493521

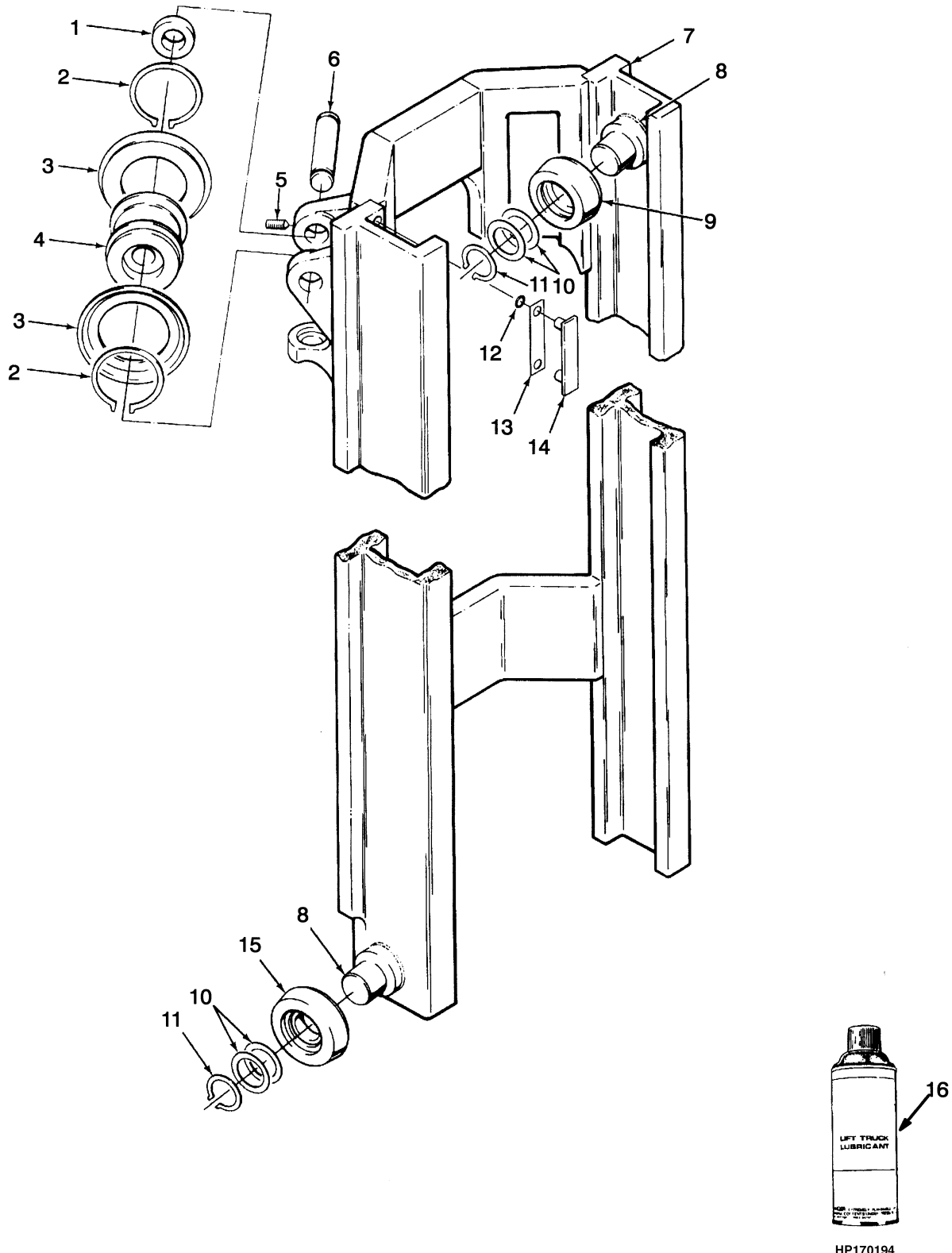
ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Outer Mast	1
2	341144	Stubshaft	2
3	369448	Hanger	2
4	296426	Washer	2
5	292570	Capscrew	2
6	187489	Snap Ring	2
7	126765	Shim	AR
8	a 1333649	Load Roller ("A") (126.75/126.49) (0.50 in.)	AR
9	104506	O-Ring	4
10	161272	Shim (0.007 in.) (Optional)	AR
10	161273	Shim (0.020 in.)	AR
11	104264	Wear Strip	2

FOOTNOTES:

a Letter on Inside Face

b Refer to Table

INTERMEDIATE MAST (FIGURE 10-3) THREE STAGE FULL FREE-LIFT (→ 2/2001)



INTERMEDIATE MAST **THREE STAGE FULL FREE-LIFT (→ 2/2001)**

A514

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
	Mast Assy	1307381	1307382	1313813	1313814
7	Intermediate Mast	364202	364203	364204	383809

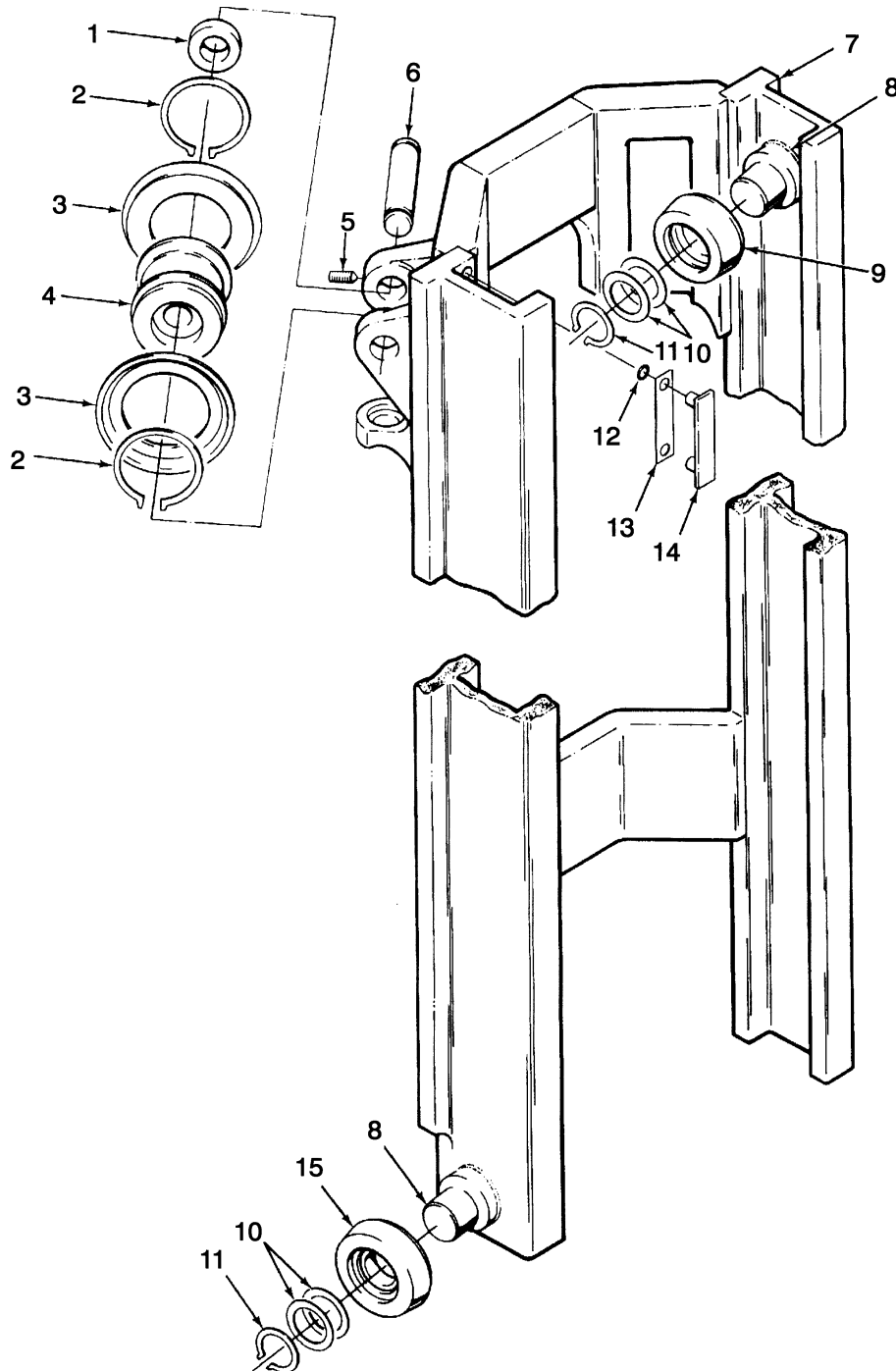
ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	362356	Spacer	4
2	362953	Snap Ring	4
3	362950	Plate	4
4	362352	Chain Sheave	2
5	302105	Setscrew	2
6	366496	Pin	2
7	b	Intermediate Mast	1
8	341144	Stubshaft	4
9	a 1333648	Load Roller ("A") (103.68/103.42) ("A") (Standard)	2
9	a 1343010	Load Roller ("B") (104.44/104.18) ("B") (0.030 in.)	AR
9	a 1343011	Load Roller ("C") (105.20/104.94) ("C") (0.060 in.)	AR
10	126765	Shim	AR
11	187489	Snap Ring	4
12	104506	O-Ring	4
13	131715	Shim (0.007 in.) (Optional)	AR
13	131716	Shim (0.020 in.)	AR
14	215211	Wear Strip	2
15	a 1333649	Load Roller ("A") (126.75/126.49) ("A") (Standard)	2
15	a 1343002	Load Roller ("B") (127.51/127.25) ("B") (0.030 in.)	AR
15	a 1343003	Load Roller ("C") (128.27/128.01) ("C") (0.060 in.)	AR
16	171351	Lubricant	AR

FOOTNOTES:

a Letter on Inside Face

b Refer to Table

INTERMEDIATE MAST (FIGURE 10-4) THREE STAGE FULL FREE-LIFT (2/2001 →)



HP170635

INTERMEDIATE MAST **THREE STAGE FULL FREE-LIFT (2/2001 →)**

A514

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
	Mast Assy	2044527	2044528	2044529	2044530
7	Intermediate Mast	364202	364203	364204	383809

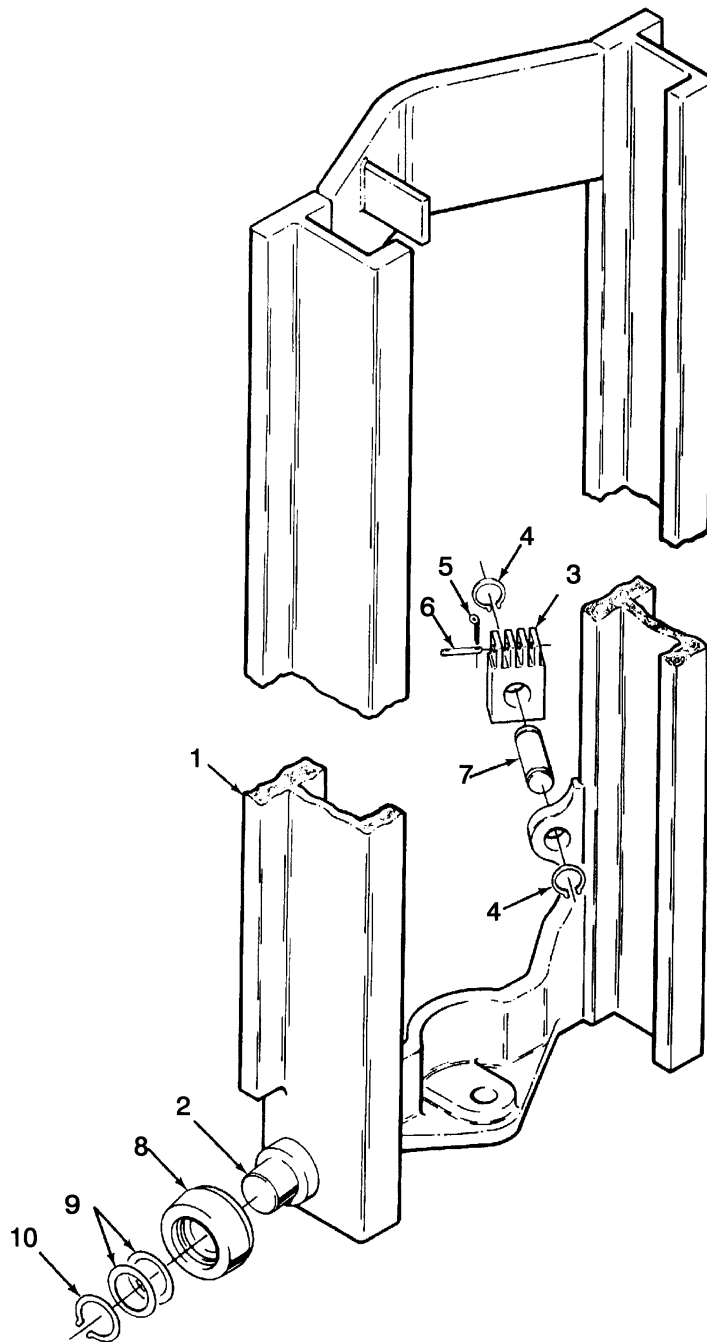
ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	362356	Spacer	4
2	362953	Snap Ring	4
3	362950	Plate	4
4	362352	Chain Sheave	2
5	302105	Setscrew	2
6	366496	Pin	2
7	b	Intermediate Mast	1
8	341144	Stubshaft	4
9	a 1333648	Load Roller ("A") (103.68/103.42) (0.050 in.)	AR
10	126765	Shim	AR
11	187489	Snap Ring	4
12	104506	O-Ring	4
13	131715	Shim (0.007 in.) (Optional)	AR
13	131716	Shim (0.020 in.)	AR
14	215211	Wear Strip	2
15	a 1333649	Load Roller ("A") (126.75/126.49) (0.050 in.)	AR

FOOTNOTES:

a Letter on Inside Face

b Refer to Table

INNER MAST (FIGURE 10-5) THREE STAGE FULL FREE-LIFT (→ 2/2001)



HP170195

INNER MAST **THREE STAGE FULL FREE-LIFT (→ 2/2001)**

A514

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
	Mast Assy	1307381	1307382	1313813	1313814
1	Inner Mast	1307391	1307392	1313811	1313812

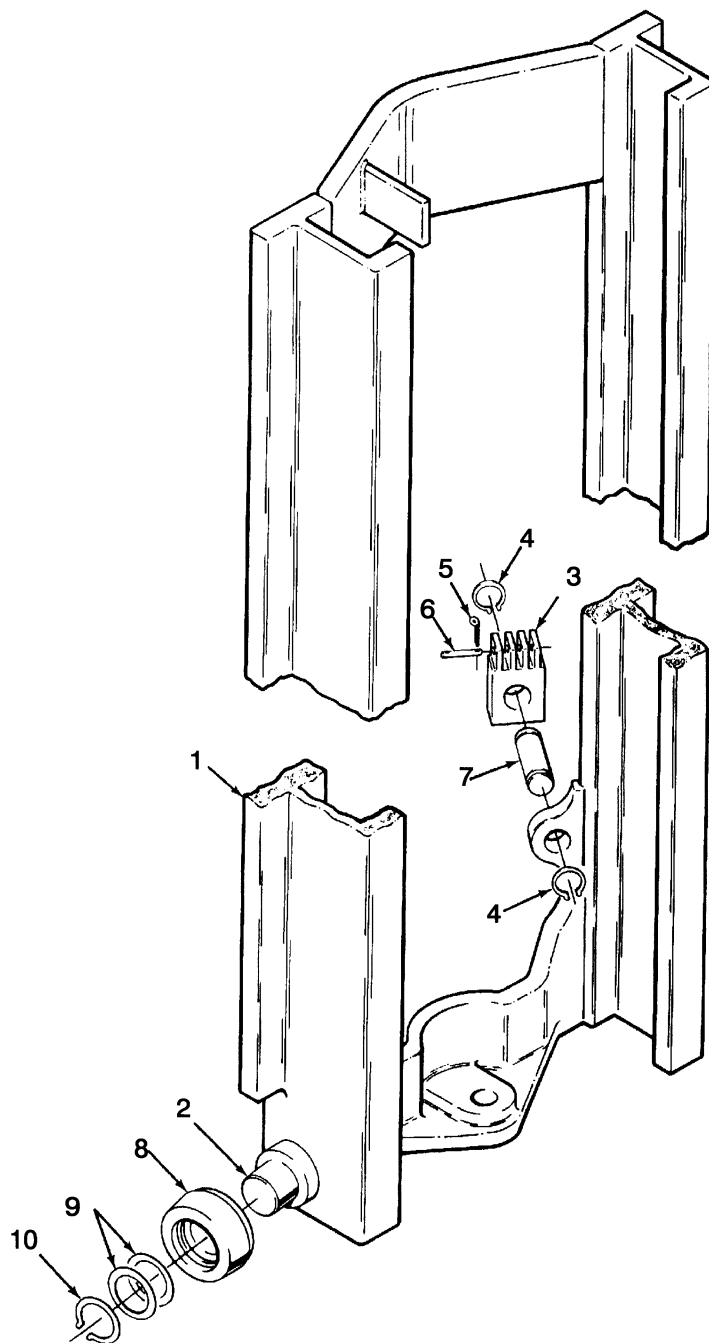
ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Inner Mast	1
2	381389	Stubshaft	2
3	358305	Chain Anchor	2
4	122400	Snap Ring	4
5	15222	Cotter Pin	2
6	1307395	Pin	2
7	349320	Pin	2
8	a 1333648	Load Roller ("A") (103.68/103.42) ("A") (Standard)	2
8	a 1343010	Load Roller ("B") (104.44/104.18) ("B") (0.030 in.)	AR
8	a 1343011	Load Roller ("C") (105.20/104.94) ("C") (0.060 in.)	AR
9	126765	Shim	AR
10	187489	Snap Ring	2
11	171351	Lubricant	AR

FOOTNOTES:

a Letter on Inside Face

b Refer to Table

INNER MAST (FIGURE 10-6) THREE STAGE FULL FREE-LIFT (2/2001 →)



HP170649

INNER MAST **THREE STAGE FULL FREE-LIFT (2/2001 →)**

A514

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
	Mast Assy	2044527	2044528	2044529	2044530
1	Inner Mast	1307391	1307392	1313811	1313812

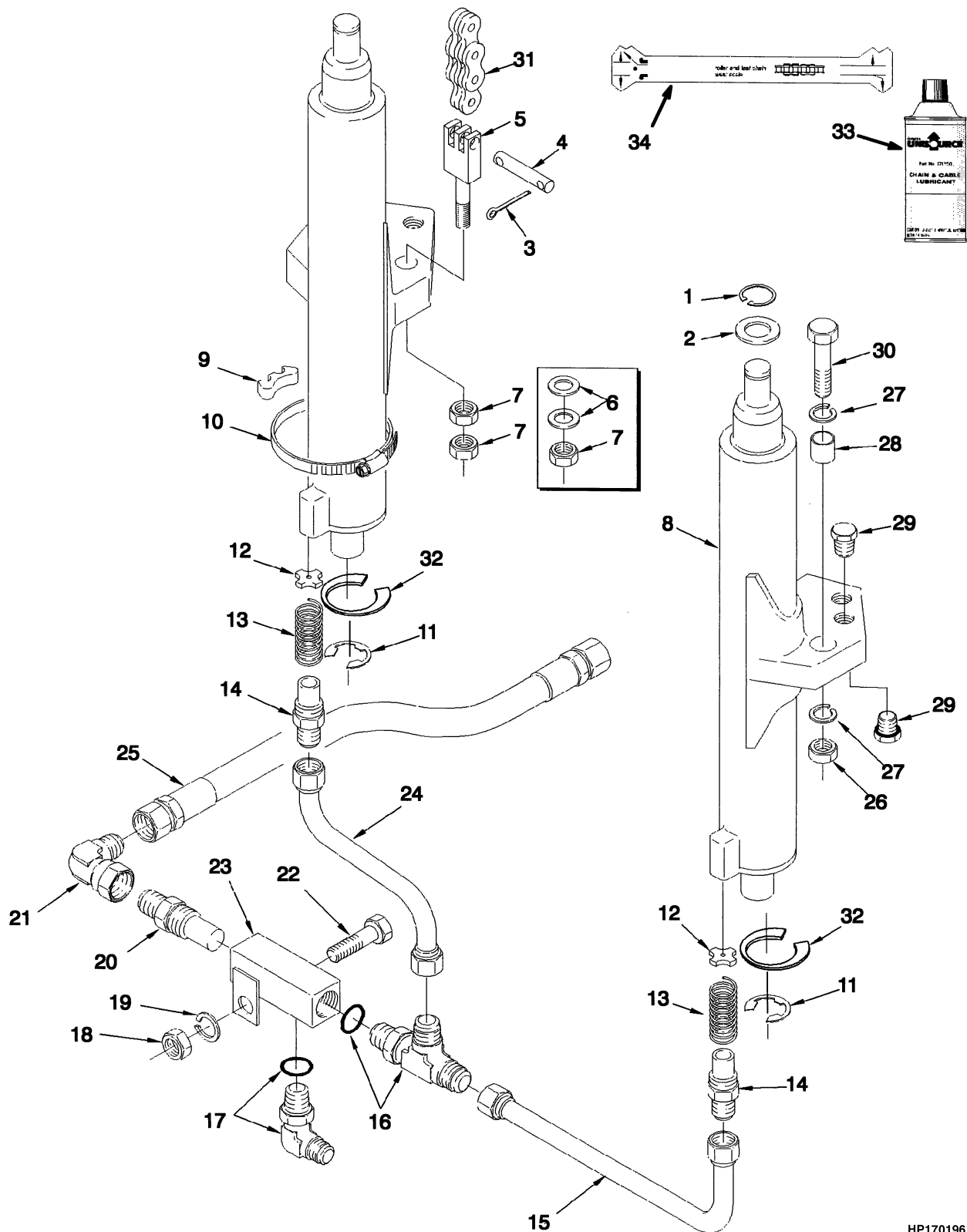
ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Inner Mast	1
2	341144	Stubshaft	2
3	358305	Chain Anchor	2
4	122400	Snap Ring	4
5	15222	Cotter Pin	2
6	1307395	Pin	2
7	349320	Pin	2
8	a 1333648	Load Roller ("A") (103.68/103.42) (0.050 in.)	AR
9	126765	Shim	AR
10	187489	Snap Ring	2

FOOTNOTES:

a Letter on Inside Face

b Refer to Table

MAIN LIFT (FIGURE 10-7) THREE STAGE FULL FREE-LIFT (→ 2/2001)



HP170196

MAIN LIFT
THREE STAGE FULL FREE-LIFT (→ 2/2001)**A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
		A514 3590	A514 4538	A514 5540	A514 6040
	Mast Assy	1307381	1307382	1313813	1313814
31	Chain	341123	366516	366523	383836

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	304523	Snap Ring	2
2	296438	Washer	2
3	15222	Cotter Pin	2
4	1307395	Pin	2
5	1331992	Chain Anchor	2
6	343946	Kit-Washer	2
7	c 293723	Nut	4
7	b 302406	Locknut	2
8		Lift Cylinder (LH) (☞ Figure 10-8).....	2
8		Lift Cylinder (RH) (☞ Figure 10-8).....	2
9	340054	Spacer	1
10	162562	Hose Clamp	1
11	1307300	Electrical Connector (E-ring)	..
12	320334	Washer	2
13	388186	Spring	2
14	184799	Fitting	2
15	372339	Tube Assy	1
16	14586	T-Fitting	1
16	16485	O-Ring	1
17	16562	Fitting	1
17	16487	O-Ring	1
18	316826	Nut	1
19	320160	Washer	2
20	346971	Lowering Control Valve	1
21	16992	Fitting	1
22	292519	Capscrew	1
23	372346	Housing	1
24	372338	Tube Assy	1
25	341055	Hose Assy	1
26	316829	Nut	4
27	296431	Washer	8
28	372389	Spacer	2
29	216590	Fitting	4
30	292593	Capscrew	4
31	a	Chain	2
32	1344753	Shim (0.030 in.)	AR
33	171350	Lubricant	AR

MAIN LIFT
THREE STAGE FULL FREE-LIFT (→ 2/2001)

ITEM	PART NO.	DESCRIPTION	QTY
34	599737	Chain Wear Scale	AR

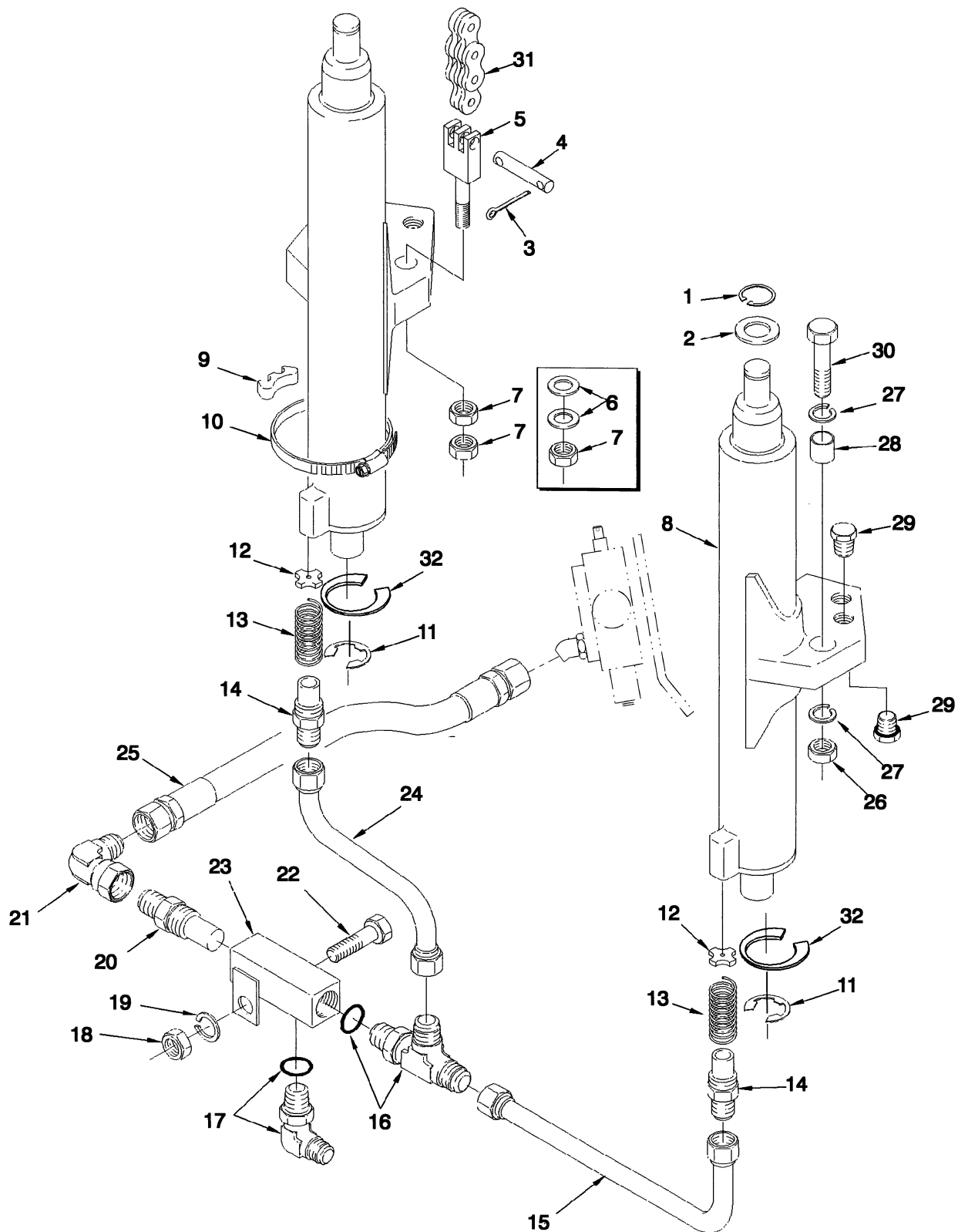
FOOTNOTES:

- a** Refer to Table
b → S/N A514E01867
- c** S/N A514E01868 →

NOTES

[illegible]

MAIN LIFT (FIGURE 10-8) THREE STAGE FULL FREE-LIFT (2/2001 →)



HP170696

MAIN LIFT
THREE STAGE FULL FREE-LIFT (2/2001 →)**A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
	Mast Assy	2044527	2044528	2044529	2044530
31	Chain	341123	366516	366523	383836

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	304523	Snap Ring	2
2	296438	Washer	2
3	15222	Cotter Pin	2
4	1307395	Pin	2
5	1331992	Chain Anchor	2
6	343946	Kit-Washer	2
7	293723	Nut	4
8		Lift Cylinder (LH) (☞Figure 10-11).....	2
8		Lift Cylinder (RH) (☞Figure 10-11).....	2
9	340054	Spacer	1
10	162562	Hose Clamp	1
11	1307300	Electrical Connector (E-ring)	..
12	320334	Washer	2
13	388186	Spring	2
14	184799	Fitting	2
15	1485589	Tube Assy	1
16	14586	T-Fitting	1
16	16485	O-Ring	1
17	16562	Fitting	1
17	16487	O-Ring	1
18	316826	Nut	1
19	320160	Washer	2
20	346971	Lowering Control Valve	1
21	16992	Fitting	1
22	292519	Capscrew	1
23	372346	Housing	1
24	1485590	Tube Assy	1
25	1485326	Hose Assy	1
26	316829	Nut	4
27	296431	Washer	8
28	372389	Spacer	2
29	216590	Fitting	4
30	292593	Capscrew	4
31	a	Chain	2
32	1344753	Shim (0.030 in.)	AR

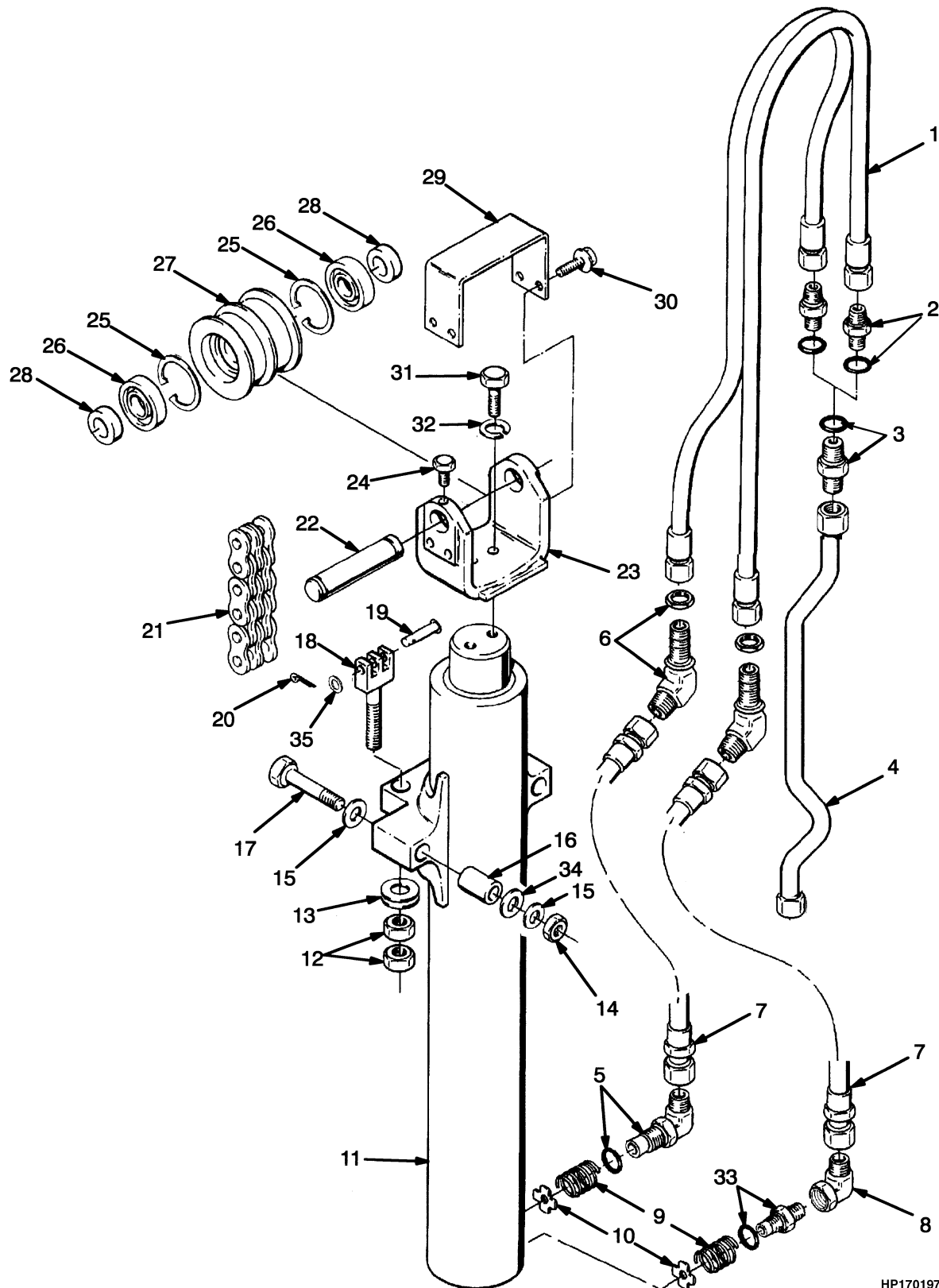
FOOTNOTES:

- a Refer to Table

NOTES

[illegible]

FREE-LIFT (FIGURE 10-9) THREE STAGE FULL FREE-LIFT (→ 2/2001)



HP170197

FREE-LIFT
THREE STAGE FULL FREE-LIFT (→ 2/2001)**A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
	Mast Assy	1307381	1307382	1313813	1313814
1	Hose Assy	366517	366518	366519	383838
4	Tube Assy	372341	372342	372343	383839
21	Chain	368139	368140	1313789	1313791

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Hose Assy	1
2	201783	Fitting	2
2	16486	O-Ring	1
3	16544	Connector	1
3	16487	O-Ring	1
4	a	Tube Assy	1
5	189595	Fitting	1
6	16467	Fitting	2
7	330028	Hose Assy	2
8	16882	Fitting	2
9	388186	Spring	2
10	320334	Washer	2
11		Lift Cylinder (☞ Figure 10-12).....	1
12	302406	Locknut	2
13	343946	Kit-Washer	2
14	316829	Nut	4
15	296431	Washer	4
16	372389	Spacer	2
17	292593	Capscrew	2
18	1331992	Chain Anchor	2
19	1307395	Pin	2
20	15222	Cotter Pin	2
21	a	Chain	2
22	366526	Pin	1
23	366528	Crosshead	1
24	302105	Setscrew	1
25	59625	Snap Ring	2
26	334932	Ball Bearing	2
27	366525	Chain Sheave	1
28	297573	Spacer	2
29	366529	Chain Guard	1
30	351668	Screw	4
31	292562	Capscrew	2
32	292685	Lockwasher	2
33	184799	Fitting	1

FREE-LIFT
THREE STAGE FULL FREE-LIFT (→ 2/2001)

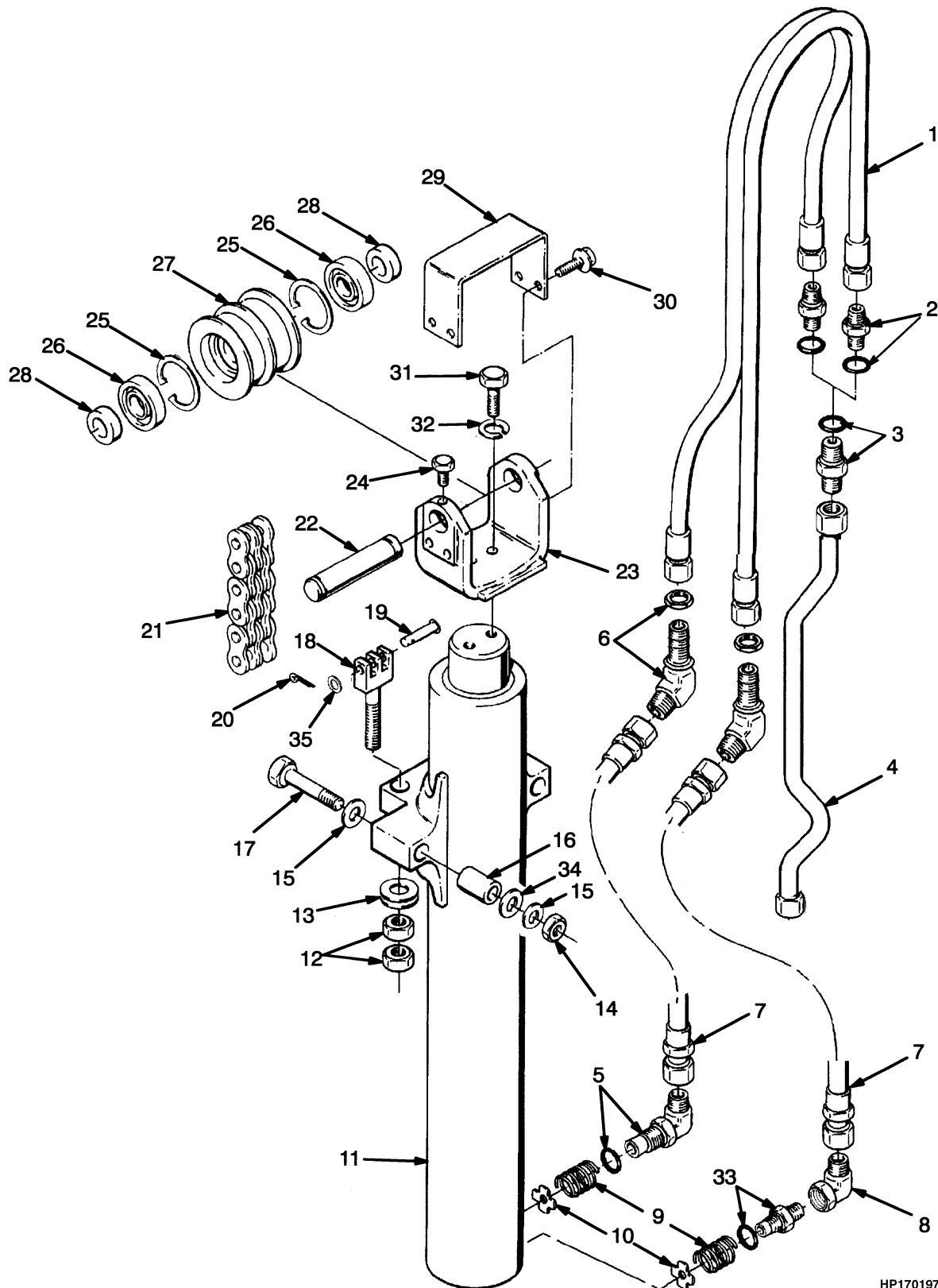
ITEM	PART NO.	DESCRIPTION	QTY
34	15133	Washer	2
35	320160	Washer	AR

FOOTNOTES:**a** Refer to Table

NOTES

[illegible]

FREE-LIFT (FIGURE 10-10) THREE STAGE FULL FREE-LIFT (2/2001 →)



HP170197

FREE-LIFT
THREE STAGE FULL FREE-LIFT (2/2001 →)**A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
		A514 3590	A514 4538	A514 5540	A514 6040
	Mast Assy	2044527	2044528	2044529	2044530
1	Hose Assy	366517	366518	366519	383838
4	Tube Assy	1493523	1485591	1493524	1493525
21	Chain	368139	368140	1313789	1313791

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Hose Assy	1
2	201783	Fitting	2
2	16486	O-Ring	1
3	16544	Connector	1
3	16487	O-Ring	1
4	a	Tube Assy	1
5	189595	Fitting	1
6	16467	Fitting	2
7	330028	Hose Assy	2
8	16882	Fitting	2
9	388186	Spring	2
10	320334	Washer	2
11		Lift Cylinder (☞ Figure 10-12).....	1
12	293723	Nut	4
13	343946	Kit-Washer	2
14	316829	Nut	4
15	296431	Washer	4
16	372389	Spacer	2
17	292593	Capscrew	2
18	1331992	Chain Anchor	2
19	1307395	Pin	2
20	15222	Cotter Pin	2
21	a	Chain	2
22	366526	Pin	1
23	366528	Crosshead	1
24	302105	Setscrew	1
25	59625	Snap Ring	2
26	334932	Ball Bearing	2
27	366525	Chain Sheave	1
28	297573	Spacer	2
29	366529	Chain Guard	1
30	351668	Screw	4
31	292562	Capscrew	2
32	292685	Lockwasher	2
33	184799	Fitting	1

FREE-LIFT
THREE STAGE FULL FREE-LIFT (2/2001 →)

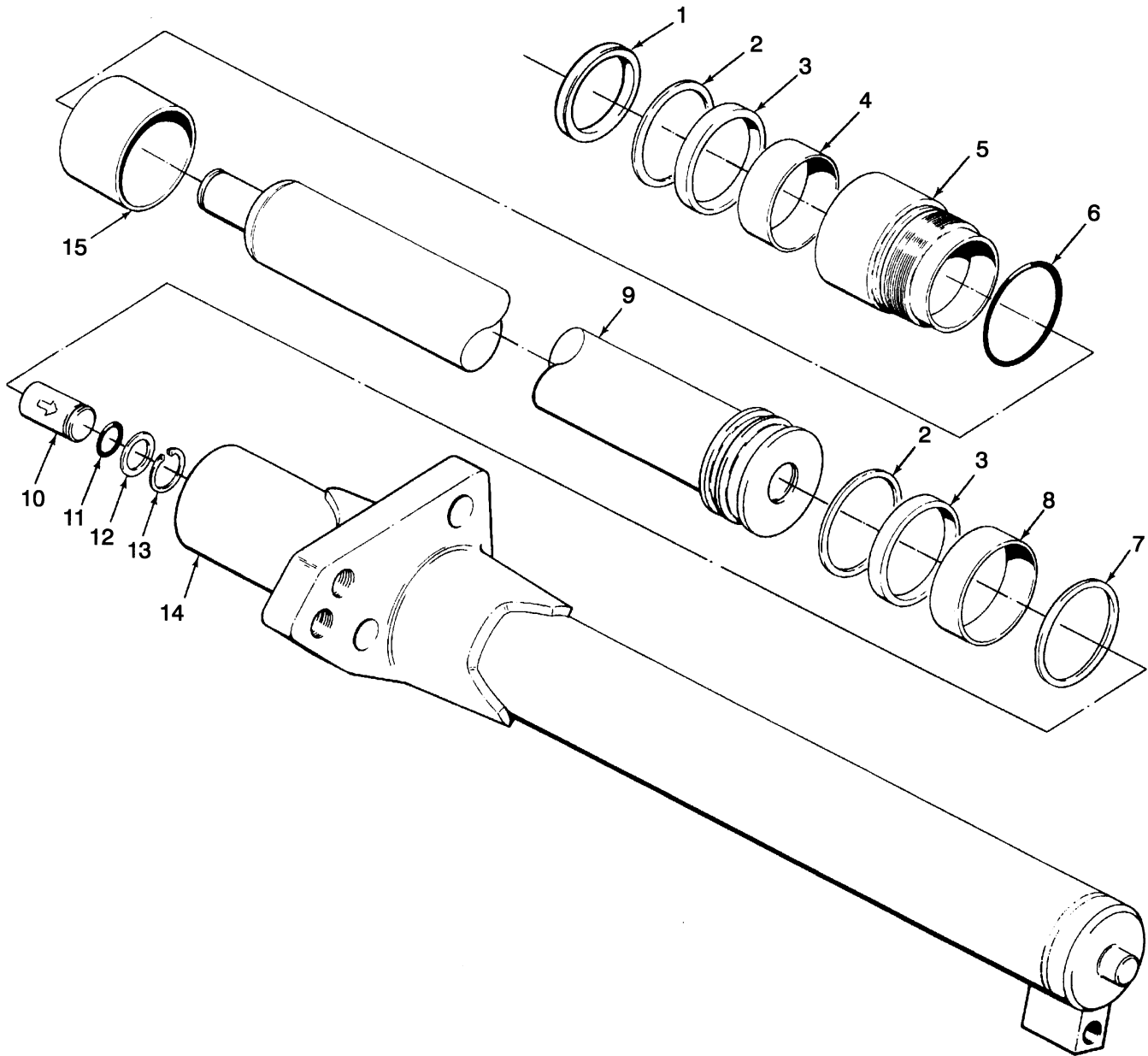
ITEM	PART NO.	DESCRIPTION	QTY
34	15133	Washer	2
35	320160	Washer	AR

FOOTNOTES:**a** Refer to Table

NOTES

[illegible]

MAIN LIFT CYLINDER (FIGURE 10-11) THREE STAGE FULL FREE-LIFT



HP170717

**MAIN LIFT CYLINDER
THREE STAGE FULL FREE-LIFT****LEFT HAND**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
	Cylinder Group Number	8504270	8504271	8504272	8504273
	Cylinder Assy	1332000	1332002	1332003	1332004
9	Cylinder Rod	362965	362966	362967	383827
14	Tube Wldmt- Cylinder	362986	362987	362988	383826 383826 383824
15	Spacer	----	----	----	383824

RIGHT HAND

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
	Cylinder Group Number	8504274	8504275	8504276	8504277
	Cylinder Assy	1332005	1332007	1332008	1332009
9	Cylinder Rod	362965	362966	362967	383827
14	Tube Wldmt- Cylinder	362975	362976	362977	383822
15	Spacer	----	----	----	383824

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	2
1	1314311	Rod Wiper	1
2	637565	Back-Up Ring	2
3	309062	Rod Seal	2
4	316513	Wear Ring	1
5	1331993	Retainer	1
6	15880	O-Ring	1
7	364233	Piston Ring	1
8	636941	Wear Ring	1
9	a	Cylinder Rod	1
10	257913	Check Valve	1
11	39348	O-Ring	1
12	297531	Washer	1
12	637635	Washer (Optional)	1

MAIN LIFT CYLINDER THREE STAGE FULL FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY
13	187388	Snap Ring	1
14	a	Tube Wldmt-Cylinder	1
15	a	Spacer	1
	1332019	Kit-Seal	1

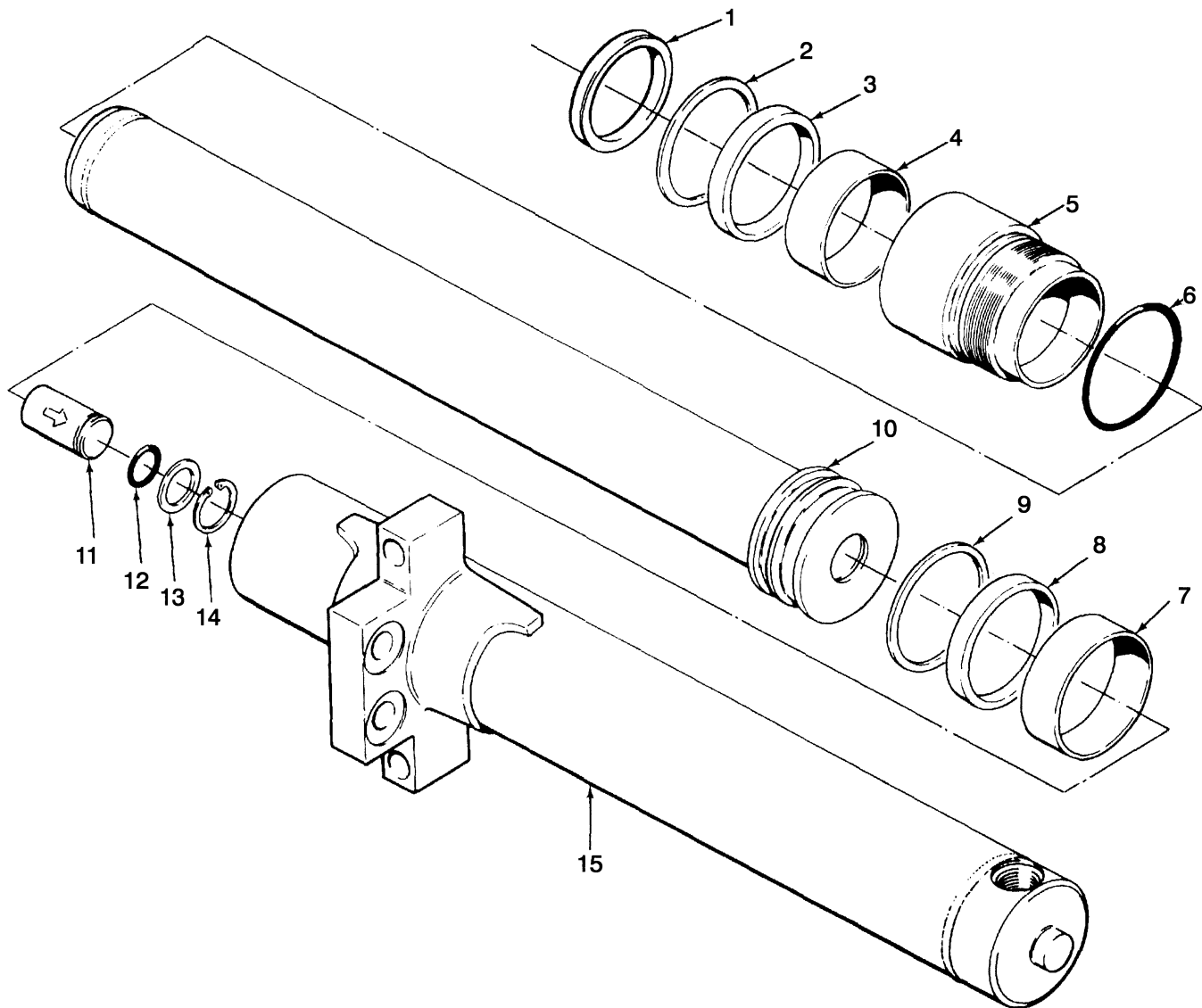
FOOTNOTES:

a Refer to Table

NOTES

[illegible]

FREE-LIFT CYLINDER (FIGURE 10-12) THREE STAGE FULL FREE-LIFT



HP170718

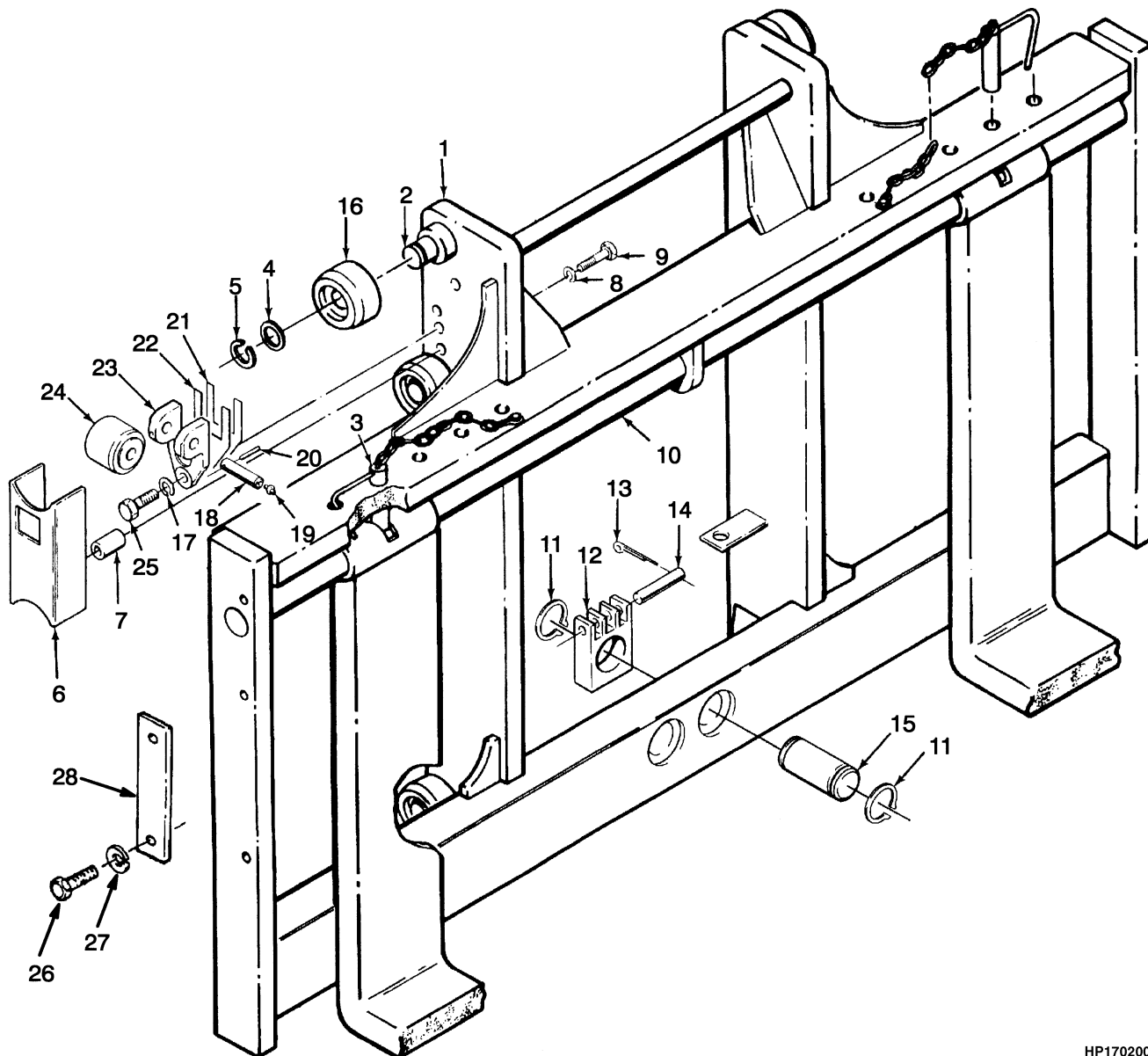
**FREE-LIFT CYLINDER
THREE STAGE FULL FREE-LIFT****A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
	Cylinder Group Number	8504266	8504267	8504268	8504269
	Cylinder Assy	364246	364247	1313809	1313810
10	Cylinder Rod	366484	366485	366486	383831
15	Tube Wldmt- Cylinder	366476	366477	1313807	1313808

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	1
1	636858	Rod Wiper	1
2	638292	Back-Up Ring	1
3	637161	Rod Seal	1
4	215345	Wear Ring	1
5	324023	Retainer	1
6	15889	O-Ring	1
7	636954	Wear Ring	1
8	637166	Rod Seal	1
9	638224	Back-Up Ring	1
10	a	Cylinder Rod	1
11	257913	Check Valve	1
12	190580	O-Ring	1
13	297531	Washer	1
13	637635	Washer (Optional)	1
14	187388	Snap Ring	1
15	a	Tube Wldmt-Cylinder	1
	368137	Kit-Seal	1

FOOTNOTES:**a** Refer to Table

CARRIAGE (FIGURE 10-13) PIN TYPE — THREE STAGE FULL FREE-LIFT



HP170200

CARRIAGE
PIN TYPE – THREE STAGE FULL FREE-LIFT**KEY:****A: 1523 mm Carriage****B: 1980 mm Carriage**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a 1307340	Carriage	1	..
	1318161	Carriage (78 in.)	..	1
	b 366513	Carriage	1	..
1	a 1307341	Frame	1	..
1	1331270	Carriage Wldmt	..	1
1	b 366506	Frame	1	..
2	341144	Stubshaft	6	6
3	1331269	Pin	..	2
3	270979	Pin	2	..
4	126765	Shim (Bottom Four Rollers)	AR	AR
4	366116	Spacer (Top Two Rollers)	2	2
5	187489	Snap Ring	6	6
6	319322	Bracket Wldmt (Guard RH) (RH)	1	1
6	319323	Bracket Wldmt (Guard LH) (LH)	1	1
7	317292	Spacer	4	4
8	15155	Lockwasher	4	4
9	18518	Capscrew	4	4
10	1330064	Pin	..	2
10	346997	Pin	2	..
11	122400	Snap Ring	4	4
12	358305	Chain Anchor	2	2
13	15222	Cotter Pin	4	4
14	1307395	Pin	2	..
15	1330780	Pin	..	2
15	369436	Pin	2	..
16	c 1333648	Load Roller ("A") (103.68/103.42) ("A") (Standard)	6	6
16	c 1343010	Load Roller ("B") (104.44/104.18) ("B") (0.030 in.)	AR	AR
16	c 1343011	Load Roller ("C") (105.20/104.94) ("C") (0.060 in.)	AR	AR
17	d 292683	Lockwasher	4	4
18	d 244009	Pin	2	2
19	d 16001	Grease Fitting	2	2
20	d 66333	Roll Pin	2	2
21	d 192424	Shim (0.030 in.)	AR	AR
22	d 192425	Shim (0.062 in.)	AR	AR
23	d 244008	Bracket	2	2
24	d 244005	Side Roller	2	2
25	d 4048814			
	292528	Capscrew	4	4
26	226458	Capscrew	4	4
27	292685	Lockwasher	4	4
28	66468	Plate	2	2

FOOTNOTES:

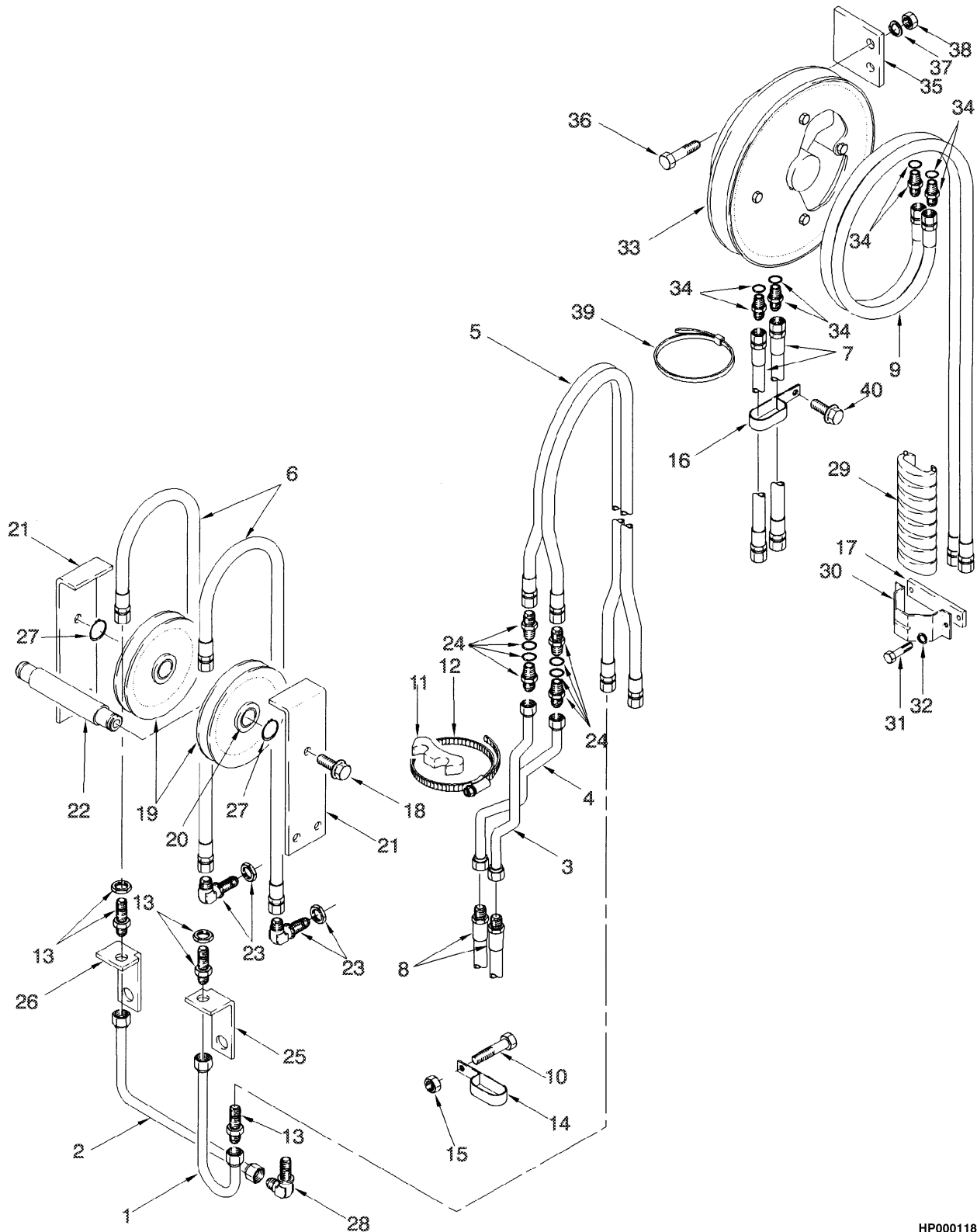
- a** 1307000 and 1313000 Series Mast
- b** 366000 Series Mast

- c** Letter on Inside Face
- d** Optional

NOTES

[illegible]

HEADER HOSE (FIGURE 10-14) THREE STAGE FULL FREE-LIFT



HP000118

**HEADER HOSE
THREE STAGE FULL FREE-LIFT****A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)	6040 mm (237.8 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540	A514 6040
1	Tube Assy	380567	380569	380569	380569
2	Tube Assy	380568	380570	380570	380570
3	Tube Assy	1562516	386626	386627	386628
4	Tube Assy	1562519	386630	386631	386632
5	Hose Assy	386634	386635	386636	386637
6	Hose Assy	386646 1302591	386646 1302592	386646 1306159 346571	1313823
7	Hose Assy	386642	386643	386644	386645
8	Hose Assy	----	----	----	346571
9	Hose Assy	----	----	----	386647

KEY:**A: Three Function****B: Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	b	Tube Assy	1	1
2	b	Tube Assy	1	1
3	b	Tube Assy	1	1
4	b	Tube Assy	1	1
5	b	Hose Assy	1	1
6	b	Hose Assy	2	2
7	b	Hose Assy	..	2
8	346571	Hose Assy	2	2
8	b	Hose Assy	2	2
9	a 386646	Hose Assy	..	1
9	b	Hose Assy	..	1
10	292519	Capscrew	1	1
11	340054	Spacer	2	2
12	78286	Clamp	2	2
13	16449	Fitting	3	3
14	255578	Clamp	1	1
15	302401	Locknut	1	1
16	255578	Clamp	..	1
17	356431	Plate	..	1
18	351668	Screw	2	2
19	297647	Sheave	2	2
20	136045	Bushing	1	1

HEADER HOSE THREE STAGE FULL FREE-LIFT

KEY:

A: Three Function

B: Four Function

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
21	380585	Bracket	2	2
22	380587	Shaft	1	1
23	16458	Fitting	2	2
24	16542	Connector	4	4
24	16485	O-Ring	1	1
25	380590	Bracket	1	1
26	380591	Bracket	1	1
27	248212	Snap Ring	2	2
28	16459	Fitting	1	1
29	358286	Strain Relief	..	1
30	358287	Bracket	..	1
31	16870	Capscrew	..	2
32	15156	Lockwasher	..	2
33	358289	Hose Reel	..	1
33	672563	Kit-Seal	..	1
34	16541	Fitting	..	4
34	16484	O-Ring	..	1
35	386648	Mounting Plate	..	1
36	292537	Capscrew	..	2
37	292683	Lockwasher	..	2
38	43189 14			
	216877	Nut	..	2
39	273775	Strap Clamp	..	2
40	351668	Screw	..	1

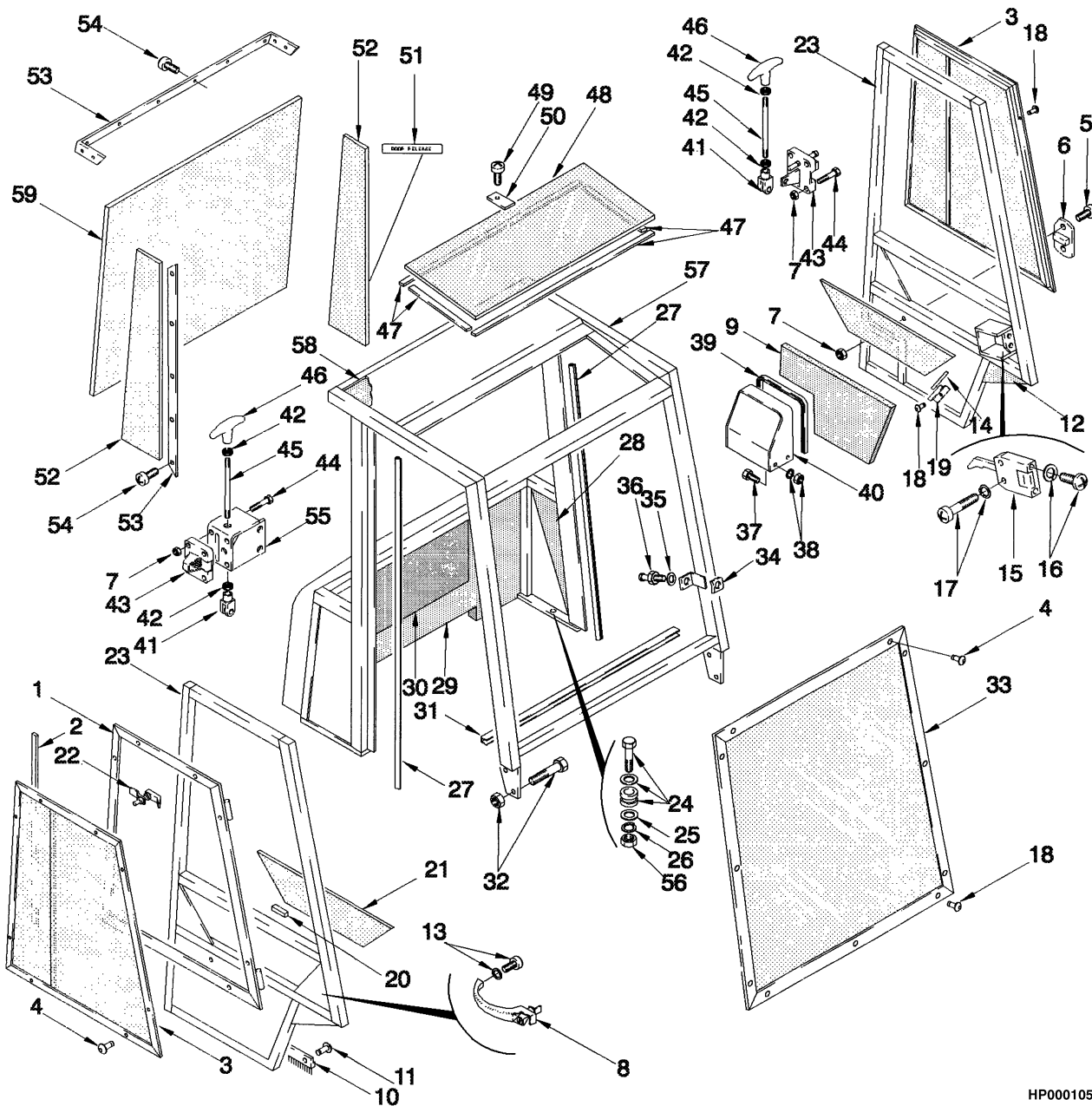
FOOTNOTES:

- a** 3590 mm (141.5 in.) thru 5540 mm (218.0 in.) Lift Heights **b** Refer to Table

**SECTION 11
OPTIONS**

DESCRIPTION	PAGE
BACK-UP ALARM	
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CAB (FIGURE 11-1)
(→ S/N F006A08145) (→ S/N F006D02182 INC. 2237, 2257)



HP000105

CAB

(→ S/N F006A08145) (→ S/N F006D02182 INC. 2237, 2257)

KEY:**A: Gasoline and Diesel****B: LPG**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	oj 1321677	Frame	..	1
1	b 3047231	Frame	..	1
2	283259	Tape	..	AR
3	oj 1319367	Window (LH) (☞ Figure 11-19).....	1	1
3	oj 1319368	Window (RH) (☞ Figure 11-19).....	1	1
3	b 3047353	Window (LH)	1	1
3	b 3047354	Window (RH)	1	1
4	1321870	Rivet	8	3
4	302031	Screw	3	1
5	302045	Screw	4	..
6	3047418	Retainer	2	1
7	1512440 302399	Nut	12	6
8	3047176	Handle	2	2
8	1360777	Key	1	1
9	nk 1367714	Sound Liner (LH)	1	1
9	I 1367719	Foam Lining (RH)	1	1
9	de 3047415	Sound Liner (LH)	1	1
9	f 3047416	Sound Liner (RH)	1	1
10	365325	Strip Seal	AR	AR
11	222024	Rivet	20	20
12	nk 1358773	Foam Lining (LH)	1	1
12	de 3047200	Sound Liner (LH)	1	1
12	f 3047201	Foam Lining (RH)	1	1
13	292680	Washer	2	2
13	302043	Screw	2	2
14	261158	Foam Tape	AR	AR
15	1309824	Door Handle (LH)	1	1
15	1312450	Door Handle (RH)	1	1
16	296396	Washer	4	4
16	296464	Screw	4	4
17	15165	Lockwasher	4	4
17	302248	Capscrew	4	4
18	1321870	Rivet	21	21
19	3047178	Clip	4	4
20	334369	Block	4	4
21	b 3047355	Window (☞ Figure 11-20).....	2	2
22	320048	Latch	..	1
23	gi 1321676	Door (RH)	..	1
23	nk 1358769	Door (RH)	..	1
23	nk 1358770	Door (RH)	1	..
23	nk 1358771	Door (LH)	1	1
23	b 3047230	Door Panel (RH)	..	1
23	de 3047352	Door (LH)	1	1
24	129962	Motor Mount	2	2

CAB

(→ S/N F006A08145) (→ S/N F006D02182 INC. 2237, 2257)

KEY:

A: Gasoline and Diesel

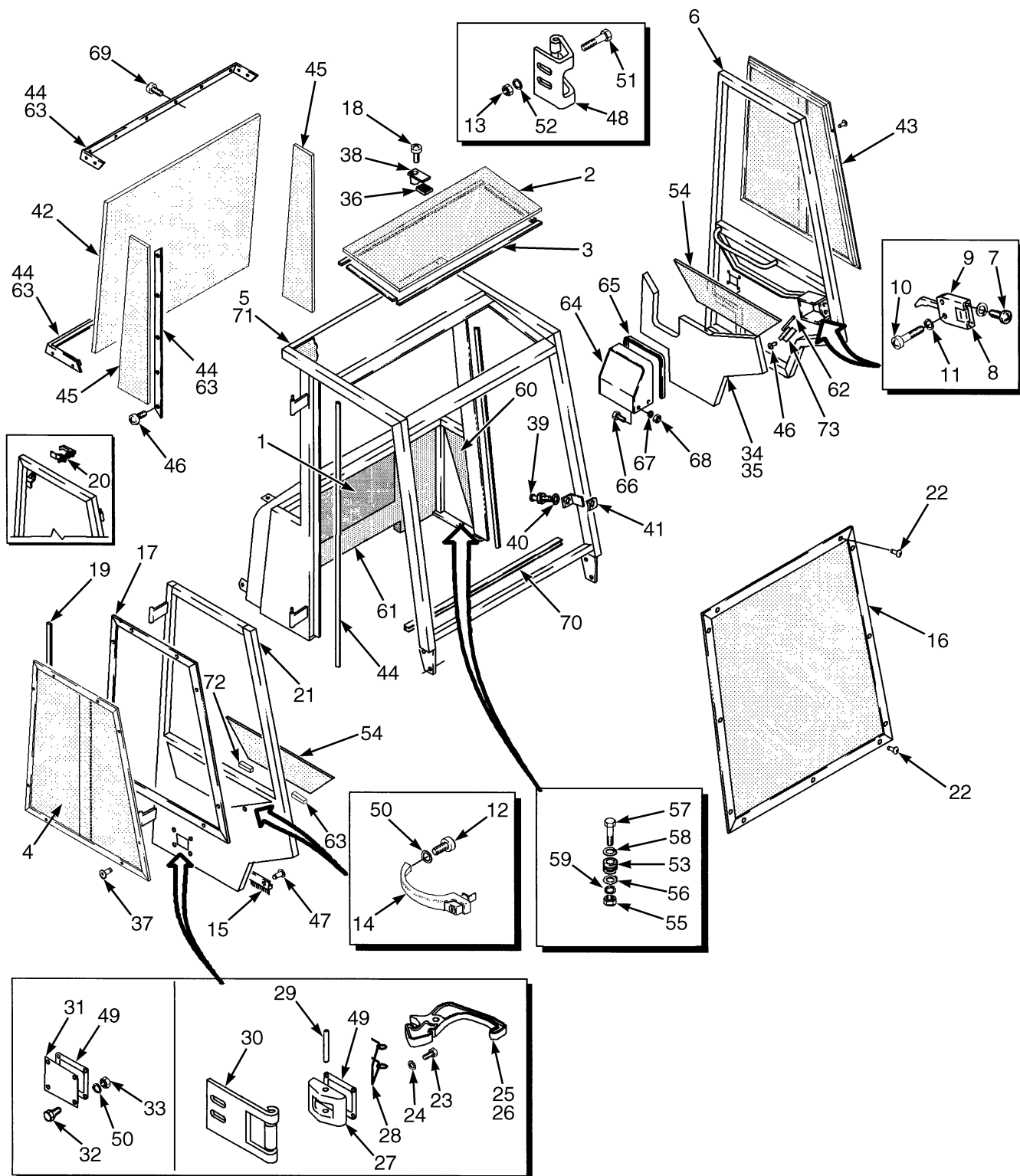
B: LPG

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
24	292570	Capscrew	2	2
24	379402	Washer	2	2
25	164281	Washer	2	2
26	292685	Lockwasher	2	2
27	365327	Strip Seal	AR	AR
28	3047419	Foam Lining (LH)	1	1
28	3047420	Foam Lining (RH)	1	1
29	1336867	Foam Lining	1	1
30	377612	Foam Lining	1	1
31	3047468	Seal	AR	AR
32	134674	Shim (0.060 in.)	AR	AR
32	222163	Capscrew	4	4
32	248320	Wheel Nut	4	4
33	1319363	Window (Front) (☞Figure 11-18).....	1	1
34	365343	Plate	2	2
35	15178	Washer	2	2
36	365344	Bolt	2	2
37	287851	Capscrew	4	..
38	239503	Nut	4	..
38	320157	Washer	4	..
39	1328887	Seal	AR	..
40	370269	Cover	1	..
41	3047330	Rod End	2	1
42	292668	Nut	4	2
43	3047417	Retainer	2	1
44	296472	Screw	8	4
45	3047331	Link	2	1
46	3047329	Knob	2	1
47	318352	Sealant	AR	AR
48	1321868	Window (Top) (☞Figure 11-20).....	1	1
49	302032	Screw	3	3
50	3047238	Plate	3	3
51		Label	1	1
52	1319367	Window (Rear) (☞Figure 11-20).....	2	2
53	b 365326	Strip	AR	AR
53	oj 366123	Strip	AR	AR
54	3047332	Screw	31	31
55	a 3047252	Bracket	1	..
55	p 386384	Bracket	1	..
56	292600	Nut	2	2
57	h 1321869	Frame	1	1
57	m 1335011	Frame	1	..
57	c 383105	Frame	1	1
58	3047394	Foam	1	1
59	1319365	Glass (Rear) (☞Figure 11-20).....	1	1

FOOTNOTES:

a	→ S/N F006A02840	i	S/N F006D01501 ↔ S/N F006D01657
b	→ S/N F006A03757	j	S/N F006D01501 →
c	→ S/N F006A04360	k	S/N F006D01567 →
d	→ S/N F006A07799	l	S/N F006D01657 →
e	→ S/N F006D01566	m	S/N F006A07083 →
f	→ S/N F006D01656	n	S/N F006A07800 →
g	S/N F006A03758 ↔ S/N F006A07799	o	S/N F006A03758 →
h	S/N F006A04361 ↔ S/N F006A07082	p	S/N F006A02841 →

CAB (FIGURE 11-2)
(S/N F006D02183 → EXC. 2237, 2257) (S/N F006A08146 →)



BP000122

CAB

(S/N F006D02183 → EXC. 2237, 2257) (S/N F006A08146 →)

KEY:**A: LPG****B: Gasoline and Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a 377612	Foam Lining	1	1
1	b 1479609	Foam Lining	1	1
2	1321868	Window (Top) (☞Figure 11-20).....	1	1
3	318352	Sealant	AR	AR
4	1324206	Glass (Stationary) (☞Figure 11-20).....	1	1
4	1375982	Window (RH Sliding) (☞Figure 11-20).....	1	1
4	1377702	Latch	1	1
5	a 1369497	Frame	1	1
5	b 1480691	Frame	1	1
5	3047451	Hinge	2	2
6	1374427	Door (LH)	1	1
6	3047452	Hinge	2	2
7	296464	Screw	4	4
8	296396	Washer	4	4
9	1309824	Door Handle (LH)	1	1
9	1312450	Door Handle (RH)	1	1
10	302248	Capscrew	4	4
11	15165	Lockwasher	4	4
12	302043	Screw	2	2
13	136692	Nut	2	2
14	3047176	Handle	2	2
14	1360777	Key	2	2
15	365325	Strip Seal	AR	AR
16	1375978	Front Window (Front) (Front) (☞Figure 11-20).....	1	1
17	1321677	Frame (Window)	1	..
18	302031	Screw	8	..
19	283259	Tape	AR	..
20	320048	Latch	2	..
21	1374425	Door (RH)	1	..
21	3047451	Hinge	2	..
21	1374426	Door (RH)	..	1
21	3047452	Hinge	..	2
22	1321870	Rivet	..	8
23	292500	Capscrew	..	4
24	320156	Washer	..	4
25	1374428	Latch	1	1
26	1356943	Latch	1	1
27	1356948	Bracket	1	1
28	1358734	Spring	1	1
29	226774	Pin	1	1
30	1369498	Striker	..	1
31	825843	Cover	1	..
32	353144	Capscrew	4	..
33	136687	Nut	4	..
34	1374440	Foam Lining (LH Door)	1	1

CAB

(S/N F006D02183 → EXC. 2237, 2257) (S/N F006A08146 →)

KEY:

A: LPG

B: Gasoline and Diesel

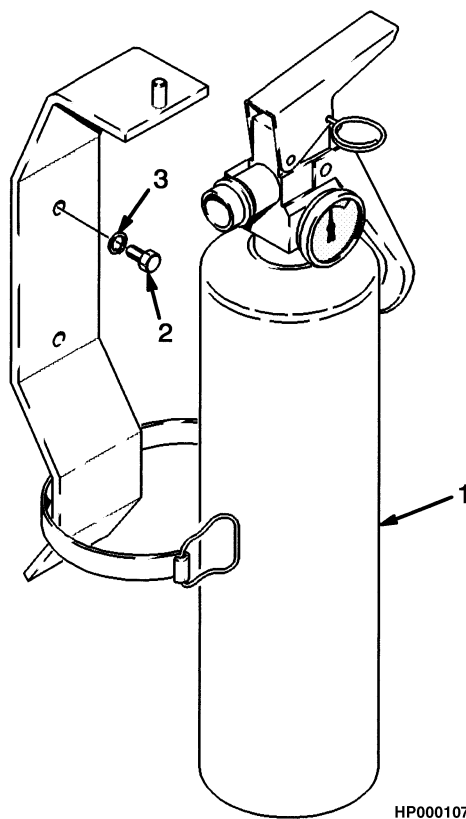
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
35	1374441	Foam Lining (RH Door)	1	1
36	1342660	Strip Seal	3	3
37	302031	Screw	3	3
38	3047238	Plate	3	3
39	365344	Bolt	2	2
40	15178	Washer	2	2
41	365343	Plate	2	2
42	1319365	Glass (Rear) (☞Figure 11-20).....	1	1
42	3047334	Adhesive	AR	AR
43	1375981	Window (LH Sliding) (☞Figure 11-20).....	1	1
43	1377702	Latch	1	1
43	1324206	Glass (Stationary)	1	1
44	365327	Strip Seal	AR	AR
45	1319364	Glass (Rear) (☞Figure 11-20).....	2	2
46	1321870	Rivet	24	24
47	222024	Rivet	20	20
48	1369520	Striker	1	1
49	1369496	Seal	2	2
50	292680	Washer	12	12
51	292513	Capscrew	2	2
52	320159	Washer	2	2
53	129962	Motor Mount	2	2
54	3047356	Window	2	2
55	292600	Nut	2	2
56	164281	Washer	2	2
57	292570	Capscrew	2	2
58	379402	Washer	4	4
59	292685	Lockwasher	2	2
60	3047419	Foam Lining (LH Door)	1	1
60	3047420	Foam Lining (RH Door)	1	1
61	a 1336867	Foam Lining	1	1
61	b 1479608	Foam Lining	1	1
62	261158	Foam Tape	AR	AR
63	366123	Strip	AR	AR
64	370269	Cover	1	1
65	1328887	Seal	AR	AR
66	287851	Capscrew	4	4
67	320157	Washer	4	4
68	239503	Nut	4	4
69	3047332	Screw	31	31
70		Seal	AR	AR
71	1466459	Foam Lining	1	1
72	334369	Block	4	4
73	3047178	Clip	4	4

FOOTNOTES:

a → S/N F006A10979X

b S/N F006A10980X →

FIRE EXTINGUISHER (FIGURE 11-3)

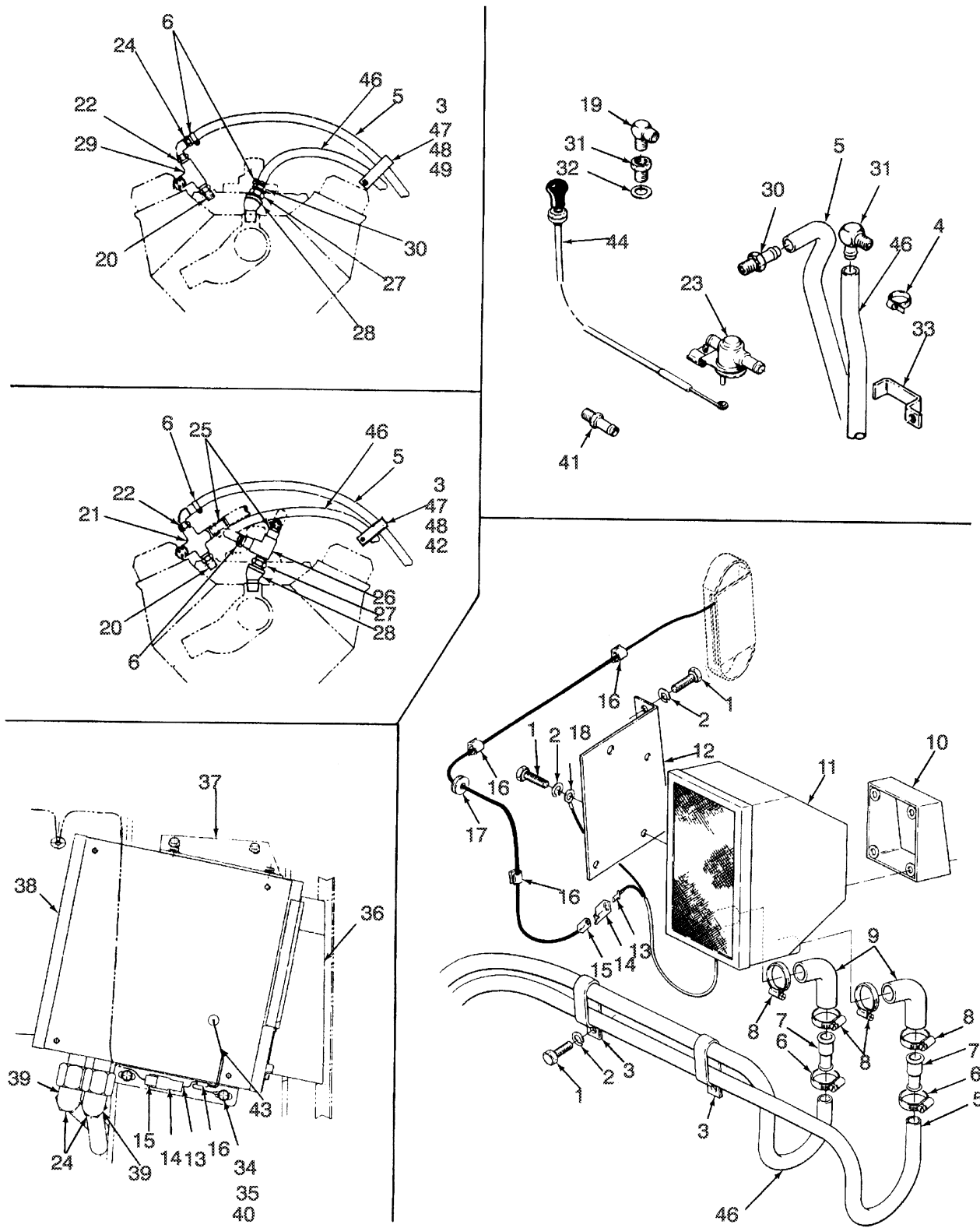


ITEM	PART NO.	DESCRIPTION	QTY
1	146540	Fire Extinguisher	1
2	227180	Screw	2
3	15923	Lockwasher	2

NOTES

[illegible]

HEATER (FIGURE 11-4) (→ S/N F006D02047 INC. 2960, 2976 EXC. 2936)



HP000108

HEATER

(→ S/N F006D02047 INC. 2960, 2976 EXC. 2936)

KEY:**A: LPG****B: Gasoline****C: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	a 292502	Capscrew	7	7	7
2	a 292680	Washer	7	7	7
3	a 172653	Clamp	2	2	2
3	dg 251994	Clamp	2	2	2
4	397676	Strap Clamp	AR	AR	AR
5	925952	Hose	..	..	1
5	925953	Hose	1	1	..
6	a 166857	Clamp	4	4	4
6	dg 166857	Clamp	6	6	6
7	a 3047258	Reducer	2	2	2
8	a 130845	Clamp	4	4	4
9	a 3047259	Elbow	2	2	2
10	a 3047264	Air Inlet	1	1	1
11	a 3047256	Heater	1	1	1
12	a 3047267	Bracket	1	1	1
13	134810	Terminal	1	1	1
14	c 181045	Connector Body	1	1	1
14	fg 181045	Connector Body	2	2	2
15	181046	Connector Body	1	1	1
16	a 279739	Clamp	5	5	5
16	dg 279739	Clamp	6	6	6
17	317192	Grommet	1	1	1
18	129894	E-Ring	1	1	1
19	b 12947	Fitting	..	..	1
20	12832	Fitting	1	1	..
21	19548	Fitting	1	..	..
22	16155	Fitting	1	1	..
23	1300741	Drain Valve	1	1	1
24	16156	Fitting	2	2	2
25	127852	Fitting	2	..	..
26	12840	Fitting	1	..	..
26	201757	Fitting (Early Models)	1	..	..
27	eg 12845	Fitting	..	1	..
27	b 12845	Fitting	1	1	..
28	b 19521	Fitting	1	1	..
29	eg 15455	Fitting	..	1	..
30	16156	Fitting	..	1	1
31	16155	Fitting	..	..	1
31	b 377626	Fitting	..	..	1
32	b 222096	Washer	..	..	1
33	172653	Clamp	..	..	1
34	dg 292500	Capscrew	6	6	6
35	dg 292680	Washer	6	6	6
36	dg 379413	Air Inlet	1	1	1

HEATER

(→ S/N F006D02047 INC. 2960, 2976 EXC. 2936)

KEY:

A: LPG

B: Gasoline

C: Diesel

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
37	dg 379416	Bracket	1	1	1
38	dg 379417	Heater	1	1	1
38	1350058	Motor	1	1	1
38	1350059	Radiator	1	1	1
39	dg 14836	Fitting (Includes Olive and Nut)	2	2	2
40	dg 320156	Washer	2	2	2
41	dg 12828	Fitting	2	2	2
42	293780	Lockwasher	1	1	..
43	175899	Tape	AR	AR	AR
44	1302129	Cable Assy	1	1	1
45	258488	Hose	1	1	1
46	131286	Hose	..	..	1
46	134131	Hose	1	1	..
47	239503	Nut	1	1	..
48	320157	Washer	1	1	..

FOOTNOTES:

a → S/N F006A02870

b → S/N F006A03039

c → S/N F006A05275

d S/N F006A02871 →

e S/N F006A03040 →

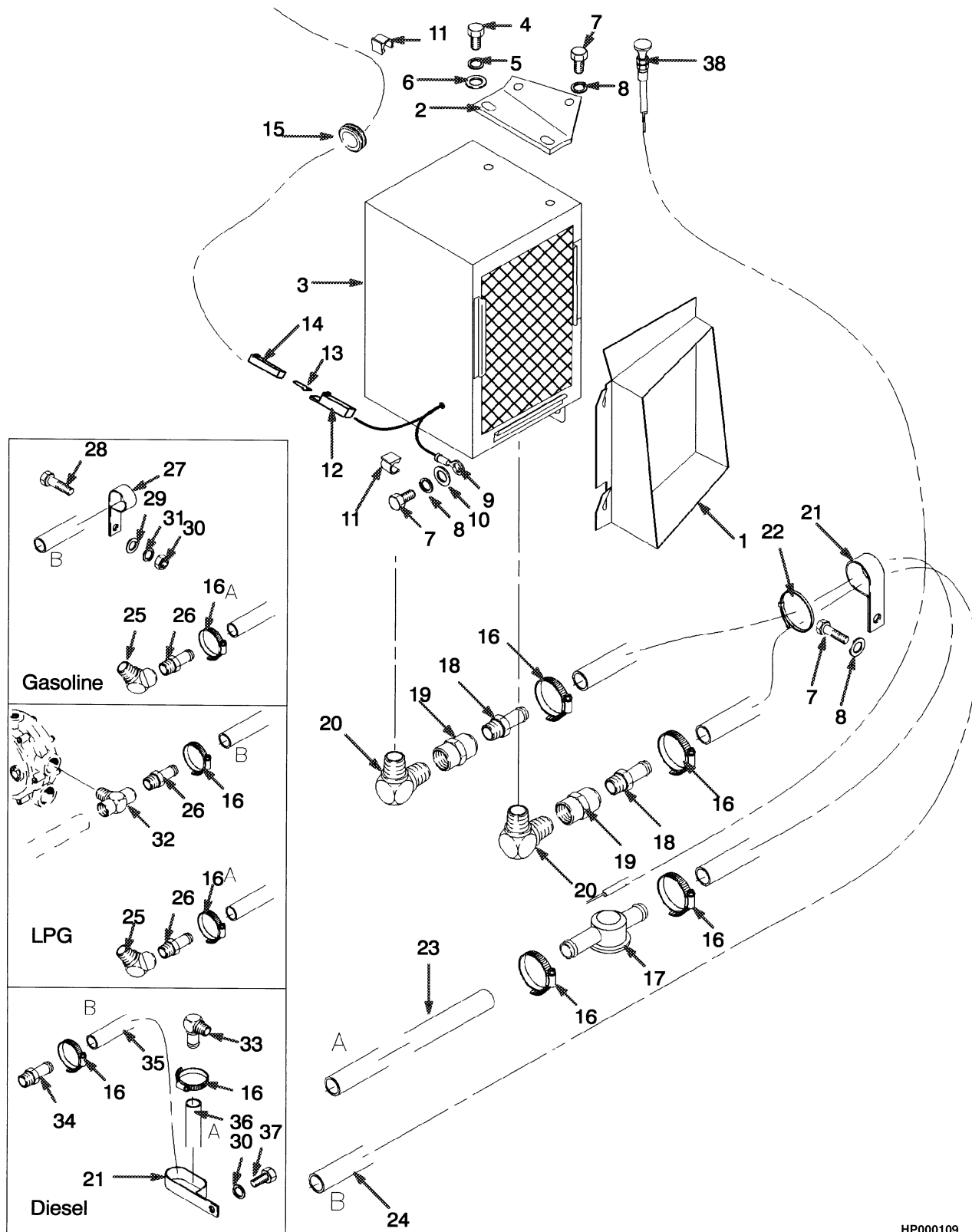
f S/N F006A05276 →

g S/N F006D01501 →

NOTES

[illegible]

HEATER (FIGURE 11-5) (S/N F006D02047 → INC. 2936 EXC. 2960, 2976)



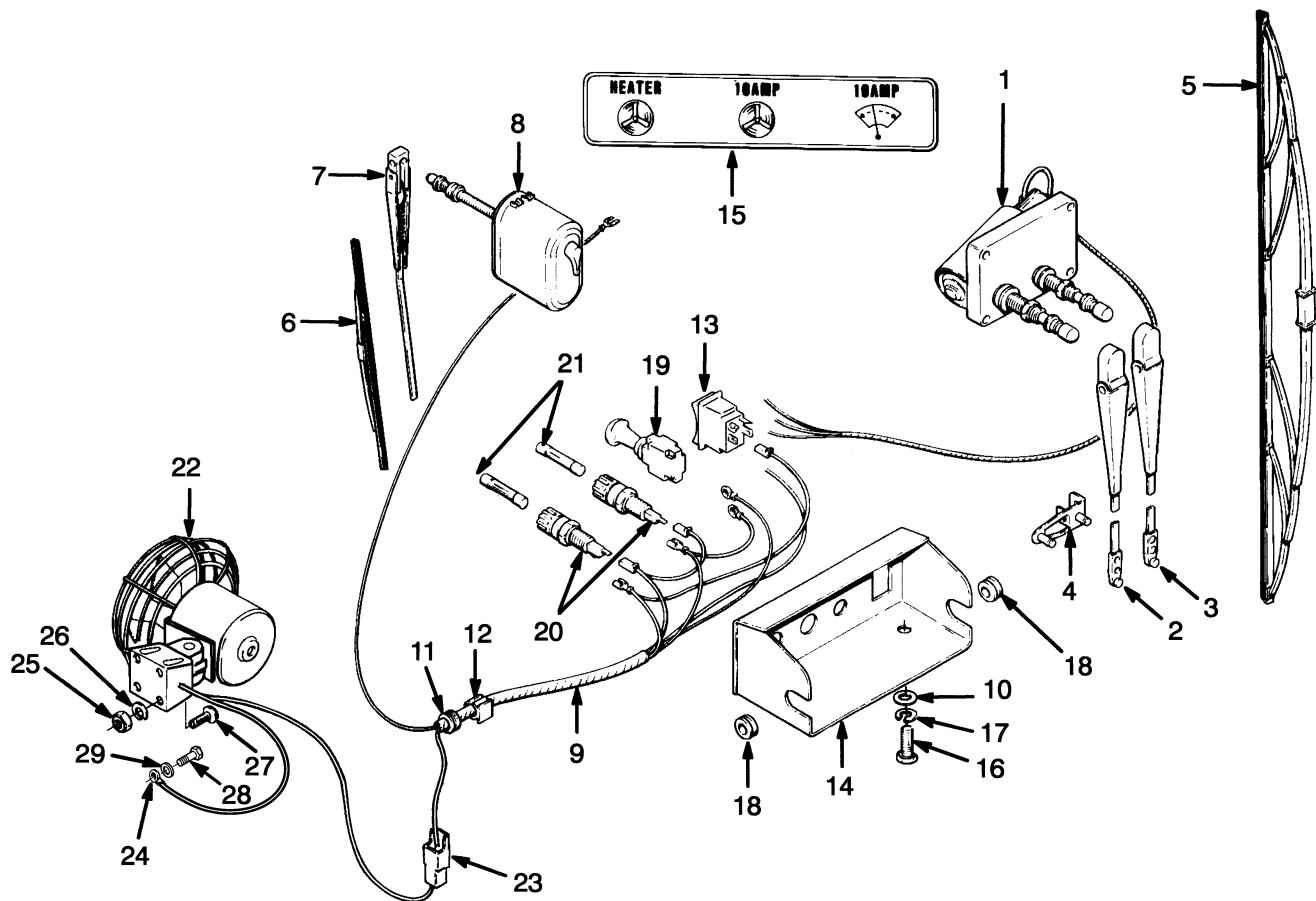
HP000109

HEATER (S/N F006D02047 → INC. 2936 EXC. 2960, 2976)

KEY:**A: LPG****B: Gasoline****C: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	379413	Air Inlet	1	1	1
2	379416	Bracket	1	1	1
3	379417	Heater	1	1	1
3	1350058	Motor	1	1	1
3	1350059	Radiator	1	1	1
4	220497	Screw	2	2	2
5	15152	Lockwasher	2	2	2
6	197067	Washer	2	2	2
7	292500	Capscrew	5	5	5
8	292680	Washer	5	5	5
9	129894	E-Ring	1	1	1
10	320156	Washer	2	2	2
11	279739	Clamp	8	8	8
12	181045	Connector Body	1	1	1
13	137810	Elbow	1	1	1
14	181046	Connector Body	1	1	1
15	317192	Grommet	1	1	1
16	130845	Clamp	6	5	6
17	1300741	Drain Valve	1	1	1
18	16156	Fitting	2	2	2
19	12828	Fitting	2	2	2
20	14836	Fitting (Includes Olive and Nut)	2	2	2
21	251994	Clamp	2	2	2
22	397676	Strap Clamp	AR	AR	AR
23	151857	Hose	1	1	1
24	129114	Hose	1	1	1
25	12823	Fitting	1	1	..
26	138710	Fitting	2	1	..
27	178119	Clamp	..	1	..
28	293615	Capscrew	..	1	..
29	296418	Washer	..	2	..
30	292681	Lockwasher	..	1	1
31	239503	Nut	1	1	..
32	17665	Fitting	1	..	..
33	16155	Fitting	..	..	1
34	16156	Fitting	..	..	1
35	131286	Hose	..	..	1
36	925952	Hose	..	..	1
37	136681	Capscrew	..	..	1
38	1302129	Cable Assy	1	1	1

WIPER AND FAN (FIGURE 11-6)

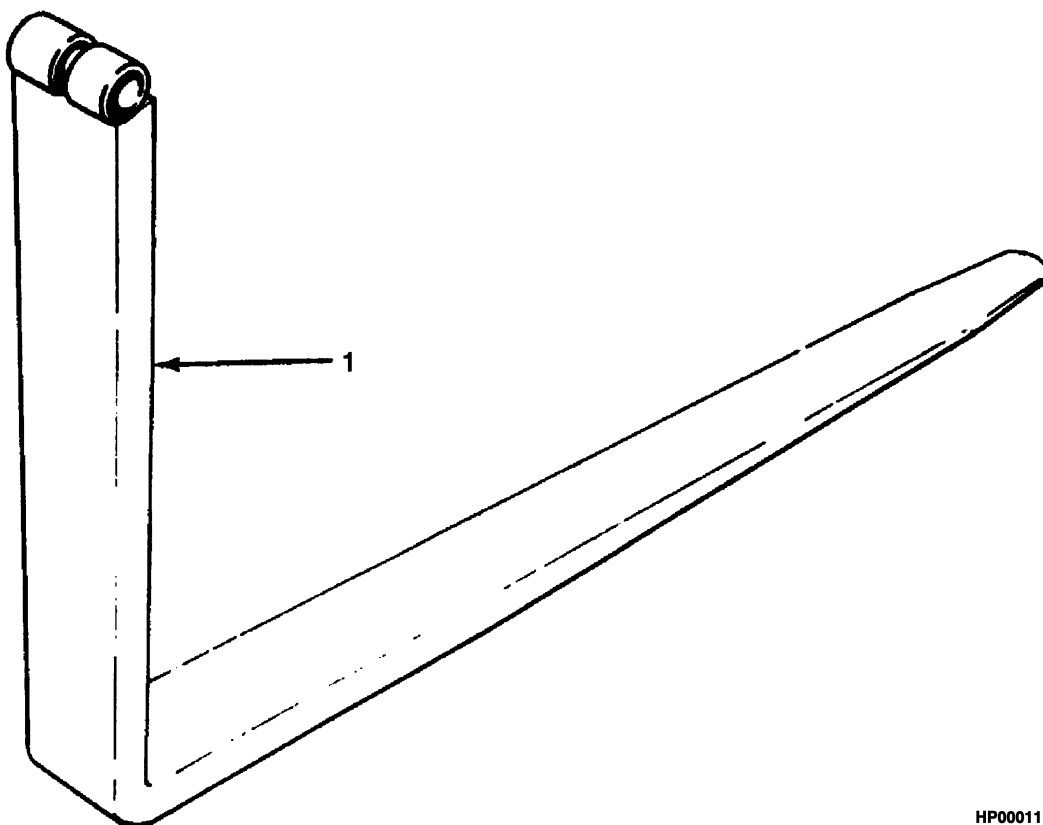


HP000461

WIPER AND FAN

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1505234	Wiper Motor	1
1	ab 1504014	Wire Harness (Adapter)	1
2	b 334234	Wiper Arm	1
3	b 334233	Wiper Arm	1
3	c 816045	Wiper Arm	1
4	334229	Bracket	1
5	b 334230	Wiper Blade	1
5	c 816046	Wiper Blade	1
6	c 1466437	Wiper Blade	1
6	b 3047328	Wiper Blade	1
7	c 1466435	Wiper Arm	1
7	b 365304	Wiper Arm	1
8	b 1317481	Wiper Motor	1
8	c 2038038	Wiper Motor	1
9	b 1324189	Wire Harness	1
9	c 2038035	Wire Harness	1
9	1506561	Wire Harness (Harness)	1
10	320156	Washer	2
11	26283	Grommet	3
12	279740	Clamp	2
13	334635	Switch (Wiper)	1
14	377606	Panel	1
15	377608	Label	1
16	148962	Capscrew	2
17	292680	Washer	2
18	1151997	Grommet	2
19	1377797	Switch (Heater Control) (Heater Fan)	1
20	377607	Fuse Holder	2
21	53124	Fuse (10 Amp)	2
22	1301745	Fan	1
22	1311213	Fan	1
23	134810	Terminal	1
23	181045	Connector Body	1
24	1301783	Ring Terminal	1
25	15002	Nut	4
26	15152	Lockwasher	4
27	16750	Screw	4
28	244272	Screw	1
29	16743	Lockwasher	1

FOOTNOTES:**a** Included in Wiper Motor Kit 1510547**c** S/N F006D02945 →**b** → S/N F006D02944

**FORK (FIGURE 11-7)
PIN TYPE**

HP000111

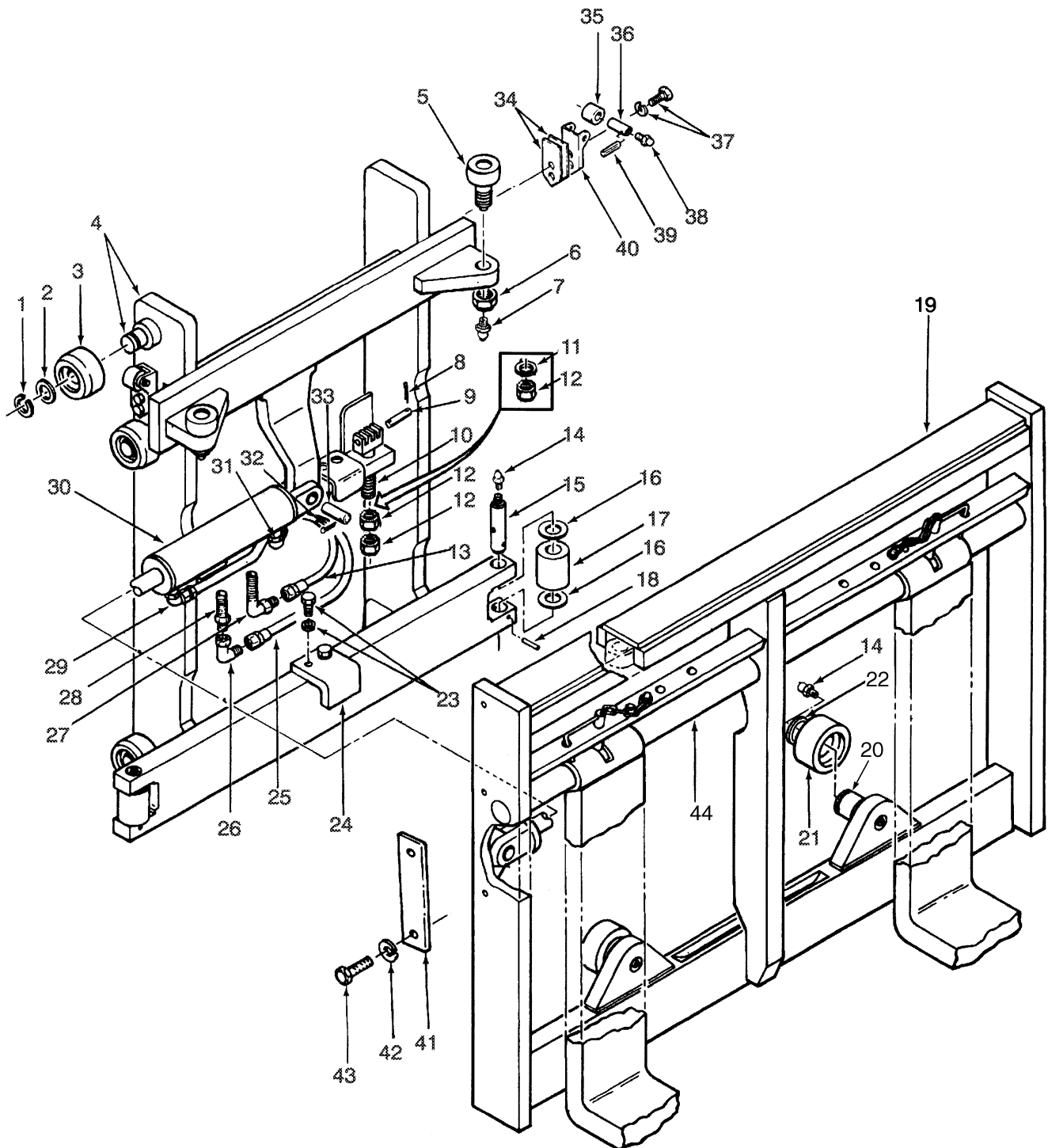
**FORK
PIN TYPE**

ITEM	PART NO.	DESCRIPTION	QTY
1	b 1330787	Fork (48 in.)	2
1	b 1330791	Fork (54 in.)	2
1	b 1330792	Fork (60 in.)	2
1	b 1330793	Fork (72 in.)	2
1	b 1330794	Fork (96 in.)	2
1	a 1333106	Fork (48.15 in.)	2
1	a 1333109	Fork (54.20 in.)	2
1	a 1333112	Fork (60.2 in.)	2
1	a 1333115	Fork (72.2 in.)	2
1	a 1333119	Fork (96.3 in.)	2
1	1362238	Fork (47.40 in.)	2
1	1362241	Fork (59.25 in.)	2
1	1362244	Fork (71.1 in.)	2
1	1362247	Fork (94.8 in.)	2

FOOTNOTES:

- a** For All 60.20 and Early 78.25 in. Carriages (Use Standard 2-1/4 in. Pins for Limited Free-Lift Mast)
- b** For All 78.25 in Carriages Except Used with Standard 2-1/4 in. Pins for Limited Free-Lift Mast)

SIDE-SHIFT CARRIAGE (FIGURE 11-8) 60.20-INCH



HP000113

SIDE-SHIFT CARRIAGE
60.20-INCH

ITEM	PART NO.	DESCRIPTION	QTY
	358227	Carriage	1
1	187489	Snap Ring	6
2	126765	Shim (Bottom Four Rollers)	AR
2	366116	Spacer (Top Two Rollers)	2
3	a 1333648	Load Roller ("A") (103.68/103.42) ("A") (Standard)	6
3	a 1343010	Load Roller ("B") (104.44/104.18) ("B") (0.030 in.)	AR
3	a 1343011	Load Roller ("C") (105.20/104.94) ("C") (0.060 in.)	AR
4	358232	Carriage Wldmt	1
4	341144	Stubshaft	6
5	340105	Cam Follower	2
6	17411	Locknut	2
7	16001	Grease Fitting	2
8	15222	Cotter Pin	4
9	1307395	Pin	2
10	c 1331992	Chain Anchor	2
10	b 343935	Chain Anchor	2
11	343946	Kit-Washer	2
12	c 293723	Nut	4
12	b 302406	Locknut	2
13	358236	Hose Assy	1
14	16006	Grease Fitting	4
15	184898	Shaft	2
16	174071	Thrust Bearing	4
17	125217	Side Roller	2
18	19910	Roll Pin	2
19	358220	Apron	1
20	369439	Stubshaft	2
21	117317	Load Roller	2
21	117318	Roller	1
21	117319	Bushing	1
22	58954	Snap Ring	2
23	226458	Capscrew	2
23	292685	Lockwasher	2
24	358238	Plate	1
25	365115	Hose Assy	1
26	16989	Fitting	1
27	16458	Fitting	1
28	16448	Fitting	1
29	16558	Fitting	2
29	16483	O-Ring	1
30	1379297	Sideshift Cylinder (☞ Figure 11-11).....	1
30	358242	Sideshift Cylinder (☞ Figure 11-11).....	1
31	129563	Strap Clamp	1
32	15236	Cotter Pin	2
33	308117	Pin	2
34	192424	Shim (0.030 in.)	AR
34	192425	Shim (0.062 in.)	AR
35	244005	Side Roller	2
36	244009	Pin	2
37	4048844	Capscrew	4

SIDE-SHIFT CARRIAGE
60.20-INCH

ITEM	PART NO.	DESCRIPTION	QTY
	292528		
37	292683	Lockwasher	4
38	16001	Grease Fitting	2
39	66333	Roll Pin	2
40	244008	Bracket	2
41	149634	Plate	2
42	292685	Lockwasher	4
43	226458	Capscrew	4
44	346997	Pin	2

FOOTNOTES:

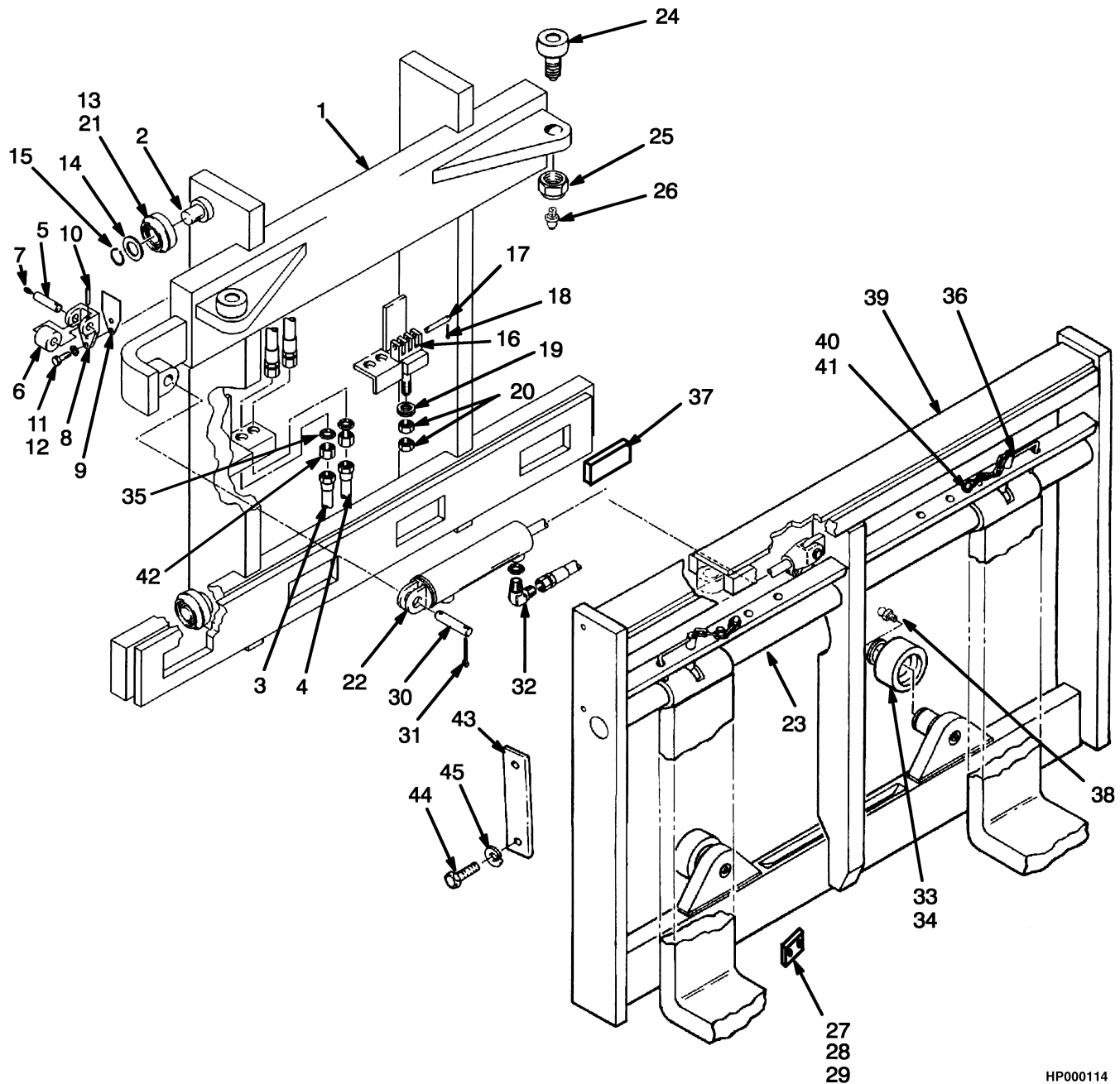
a Letter on Inside Face
b → S/N A513A04284

c S/N A513A04285 →

NOTES

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SIDE-SHIFT CARRIAGE (FIGURE 11-9) 78.25-INCH — TWO STAGE LIMITED FREE-LIFT



HP000114

SIDE-SHIFT CARRIAGE

78.25-INCH – TWO STAGE LIMITED FREE-LIFT

KEY:**A: Side-Shift Carriage 1330796****B: Side-Shift Carriage 1376381**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1330795	Side-Shift Carriage	1	1
2	341144	Stubshaft	6	6
3	a 1330785	Tube Assy	1	..
3	b 1379293	Tube Assy	..	1
4	a 1330786	Tube Assy	1	..
4	b 1379294	Tube Assy	..	1
5	244009	Pin	2	2
6	244005	Side Roller	2	2
7	16001	Grease Fitting	2	2
8	244008	Bracket	2	2
9	192424	Shim (0.030 in.)	AR	AR
9	192425	Shim (0.062 in.)	AR	AR
10	66333	Roll Pin	2	2
11	40488 44			
	292528	Capscrew	4	4
12	292683	Lockwasher	4	4
13	1333648	Load Roller ("A") (103.68/103.42)	6	6
14	126765	Shim	AR	AR
15	187489	Snap Ring	6	6
16	1331992	Chain Anchor	2	2
17	1307395	Pin	2	2
18	15222	Cotter Pin	2	2
19	343946	Kit-Washer	2	2
20	293723	Nut	4	4
21	366116	Spacer	4	4
22	1379297	Sideshift Cylinder (☞Figure 11-11).....	1	1
22	358242	Sideshift Cylinder (☞Figure 11-11).....	1	1
22	2047836	Sideshift Cylinder (☞Figure 11-11).....	..	1
23	1330064	Pin	2	2
24	340105	Cam Follower	2	2
25	17411	Locknut	2	2
26	16005	Grease Fitting	2	2
27	1330784	Plate	2	2
28	226458	Capscrew	4	4
29	292685	Lockwasher	4	4
30	308117	Pin	2	2
31	15236	Cotter Pin	2	2
32	16558	Fitting	2	2
32	16483	O-Ring	1	1
33	117317	Load Roller	2	2
34	58954	Snap Ring	2	2
35	16448	Fitting	2	2
36	1330790	Pin	2	2
37	351458	Bearing	4	4
38	16006	Grease Fitting	2	2

SIDE-SHIFT CARRIAGE
78.25-INCH – TWO STAGE LIMITED FREE-LIFT**KEY:****A:** Side-Shift Carriage 1330796**B:** Side-Shift Carriage 1376381

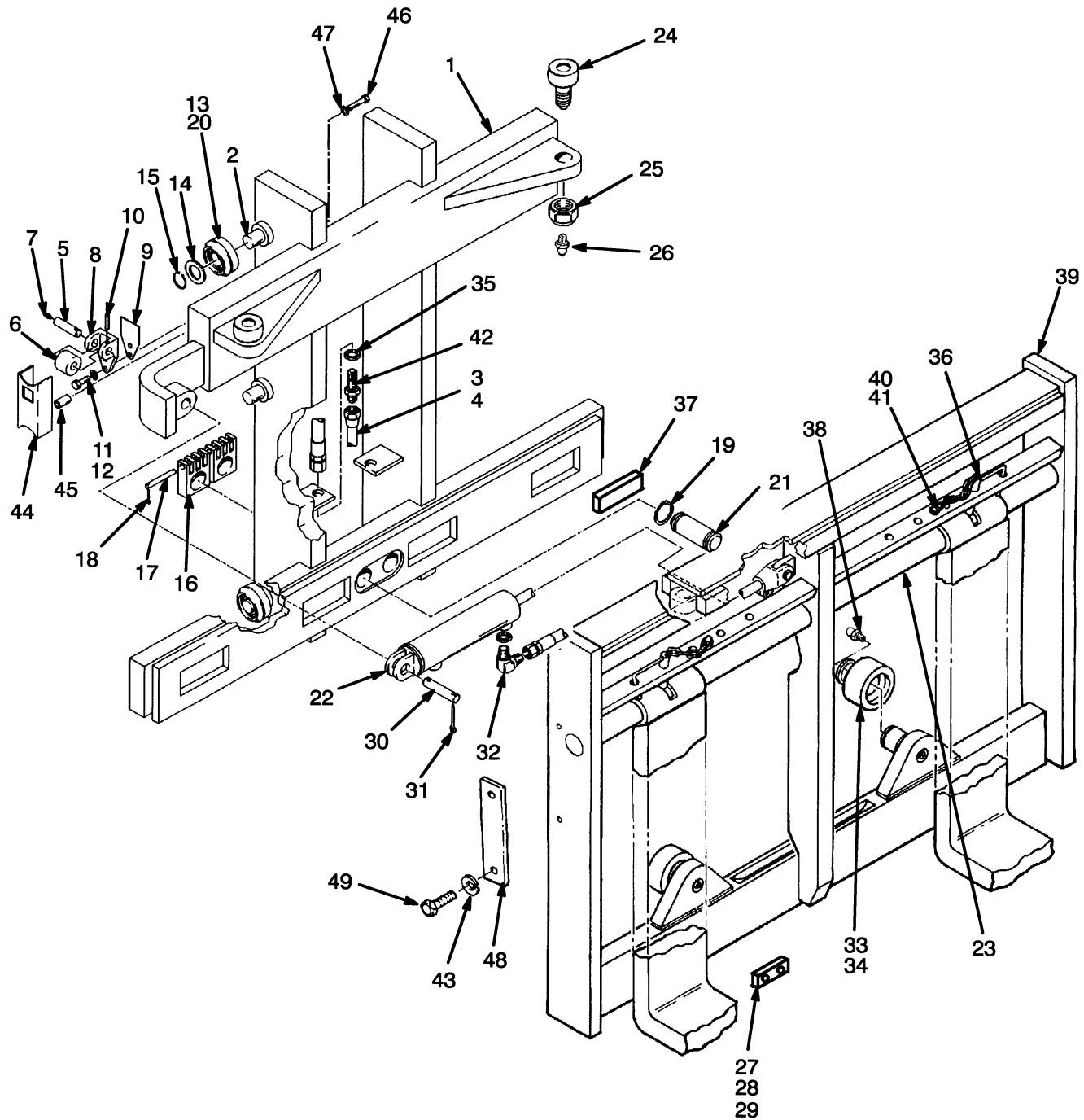
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
39	1330052	Apron	1	1
40	292513	Capscrew	2	2
41	296420	Washer	2	2
42	17218	Fitting	2	2
43	66468	Plate	2	2
44	226458	Capscrew	4	4
45	292685	Lockwasher	4	4

FOOTNOTES:**a** → Side-Shift Cylinder 358242**b** Side-Shift Cylinder 1379297 →

NOTES

[illegible]

SIDE-SHIFT CARRIAGE (FIGURE 11-10) 78.25-INCH — THREE STAGE FULL FREE-LIFT



HP000115

SIDE-SHIFT CARRIAGE

78.25-INCH – THREE STAGE FULL FREE-LIFT

KEY:**A: Side-Shift Carriage 1330782****B: Side-Shift Carriage 1376382**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1330051	Side-Shift Carriage	1	1
2	341144	Stubshaft	6	6
3	b 1331257	Tube Assy (RH)	1	..
3	a 1379295	Tube Assy (RH)	..	1
4	b 1331258	Tube Assy (LH)	1	..
4	a 1379296	Tube Assy (LH)	..	1
5	66333	Roll Pin	2	2
6	244005	Side Roller	2	2
7	16001	Grease Fitting	2	2
8	244008	Bracket	2	2
9	192424	Shim (0.030 in.)	AR	AR
9	192425	Shim (0.062 in.)	AR	AR
10	244009	Pin	2	2
11	4048814			
	292528	Capscrew	4	4
12	292683	Lockwasher	4	4
13	1333648	Load Roller ("A") (103.68/103.42)	6	6
14	126765	Shim	AR	AR
15	187489	Snap Ring	6	6
16	358305	Chain Anchor	2	2
17	1307395	Pin	2	2
18	15222	Cotter Pin	2	2
19	122400	Snap Ring	4	4
20	366116	Spacer	4	4
21	1330780	Pin	4	4
22	1379297	Sideshift Cylinder (☞Figure 11-11).....	1	1
22	358242	Sideshift Cylinder (☞Figure 11-11).....	1	1
22	2047836	Sideshift Cylinder (☞Figure 11-11).....	..	1
23	1330064	Pin	2	2
24	340105	Cam Follower	2	2
25	17411	Locknut	2	2
26	16005	Grease Fitting	2	2
27	1330784	Plate	2	2
28	226458	Capscrew	4	4
29	292685	Lockwasher	4	4
30	308117	Pin	2	2
31	15236	Cotter Pin	2	2
32	16558	Fitting	2	2
32	16483	O-Ring	1	1
33	117317	Load Roller	2	2
34	58954	Snap Ring	2	2
35	16448	Fitting	2	2
35	16484	O-Ring	1	1
36	1330790	Pin	2	2
37	351458	Bearing	4	4

SIDE-SHIFT CARRIAGE
78.25-INCH – THREE STAGE FULL FREE-LIFT**KEY:****A: Side-Shift Carriage 1330782****B: Side-Shift Carriage 1376382**

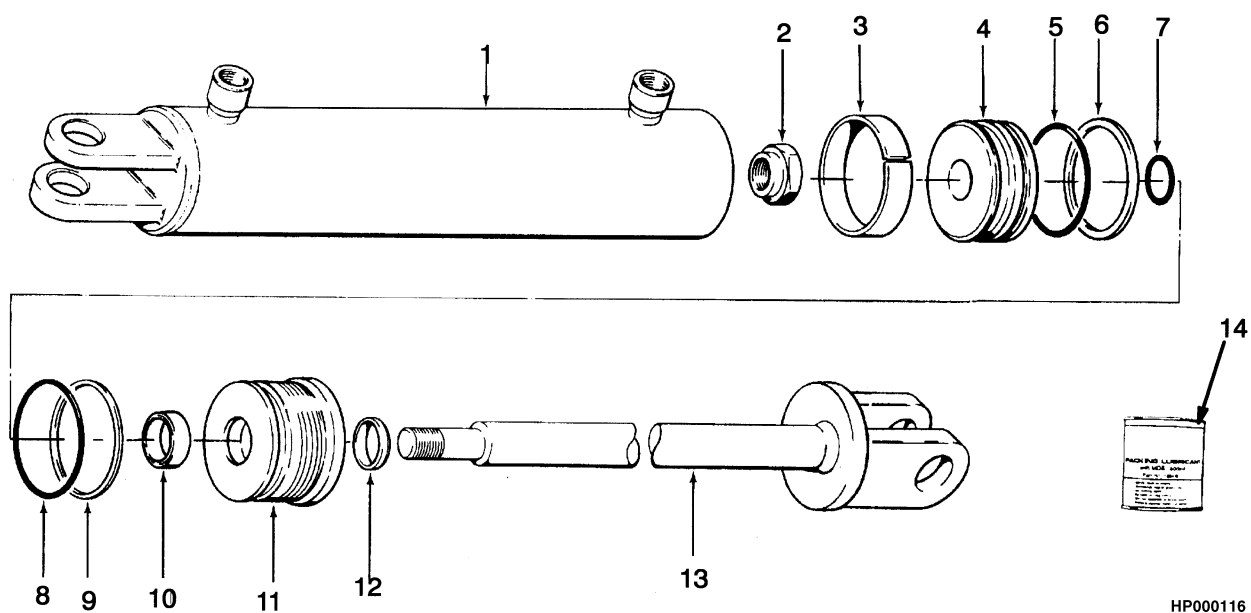
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
38	16006	Grease Fitting	2	2
39	1330052	Apron	1	1
40	292513	Capscrew	2	2
41	296420	Washer	2	2
42	17218	Fitting	2	2
43	292685	Lockwasher	4	4
44	319322	Bracket Wldmt (Guard RH) (RH)	1	1
44	319323	Bracket Wldmt (Guard LH) (LH)	1	1
45	317292	Spacer	4	4
46	18522	Capscrew	4	4
47	15155	Lockwasher	4	4
48	66468	Plate	2	2
49	226458	Capscrew	4	4

FOOTNOTES:**a** First used on Side-Shift Cylinder 1379297**b** Last used on Side-Shift Cylinder 358242

NOTES

[illegible]

SIDE-SHIFT CYLINDER (FIGURE 11-11)

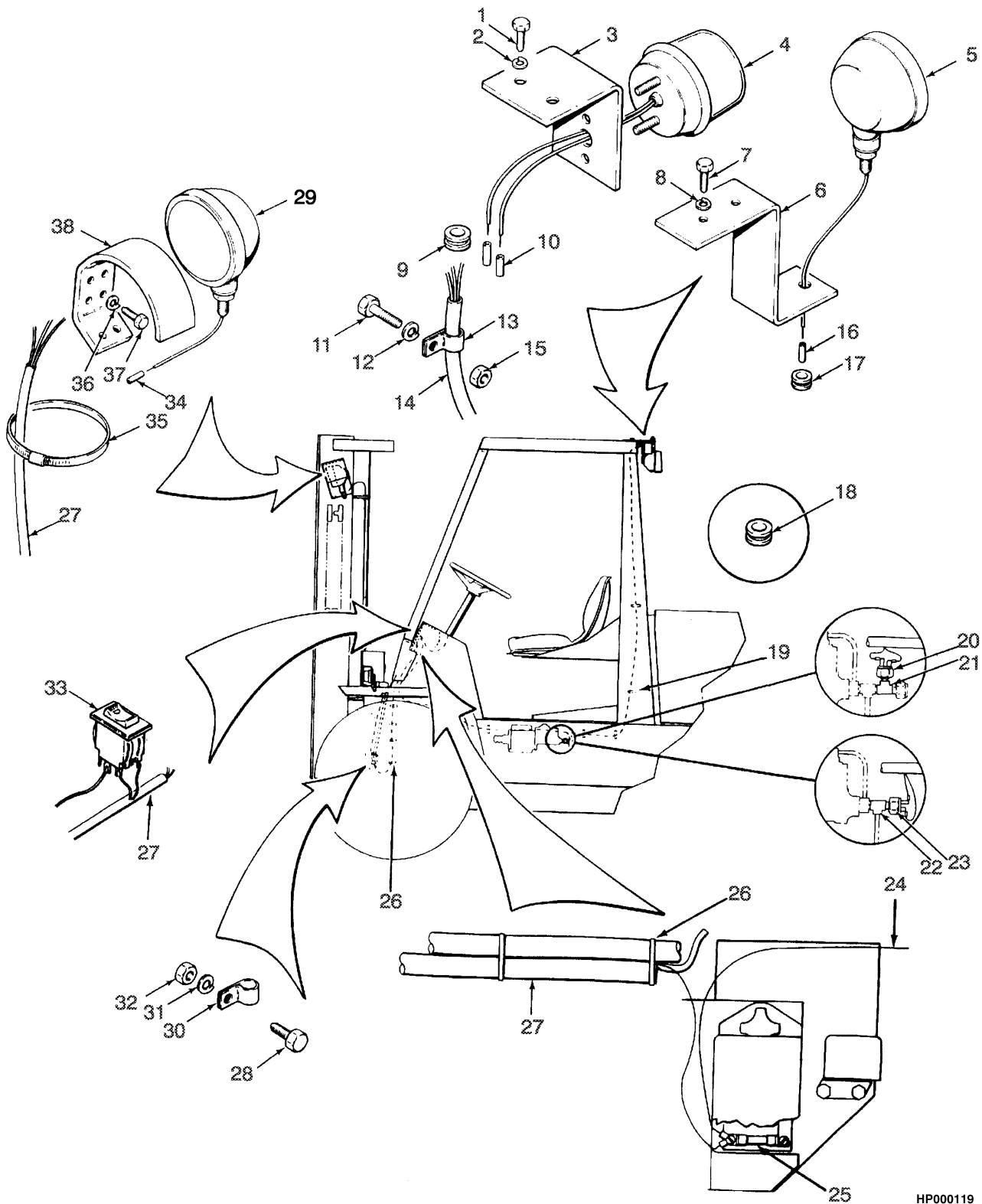


HP000116

SIDE-SHIFT CYLINDER**KEY:****A: Cylinder 358242****B: Cylinder 1379297****C: Cylinder 2047836**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
	1379297	Sideshift Cylinder	..	1	..
	358242	Sideshift Cylinder	1	..	..
	2047836	Sideshift Cylinder	..	..	1
1		Shell	1	..	..
1	1379298	Tube Wldmt-Cylinder	..	1	..
1	1506728	Tube Wldmt-Cylinder	..	..	1
2	53156	Locknut	1	1	1
3	300823	Wear Ring	1	1	1
4	328073	Piston	1	1	1
6	2044370	Piston Seal	1	1	1
7	55434	O-Ring	1	..	..
7	61056	O-Ring	..	1	1
8	46388	O-Ring	1	1	1
9	154375	Back-Up Ring	1	1	1
10	637151	Rod Seal	1	1	1
11	328220	Retainer	1	1	1
12	626468	Wiper	1	1	1
13	1344761	Rod (Optional)	1	1	1
13	358243	Rod	1	1	1
14	186061	Lubricant	AR	AR	AR
	369444	Kit-Seal	1	1	1

LIGHTS (FIGURE 11-12) (→ S/N F006A02255)



HP000119

LIGHTS
(→ S/N F006A02255)**KEY:****A: Work Lights****B: Work and Rear Drive Lights****C: Work, Rear Drive and Stop/Tail Lights**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	288394	Sealant	..	..	..
1	316678	Screw	..	..	2
2	292681	Lockwasher	..	..	2
3	329030	Bracket	..	..	1
4	1302950	Light	..	..	1
5	146843	Light	..	1	1
6	379986	Bracket	..	1	1
7	288394	Sealant	..	..	..
7	316678	Screw	..	2	2
8	292681	Lockwasher	..	2	2
9	236890	Grommet	..	..	1
10	1152571	Connector	..	..	2
11	316678	Screw	..	4	4
12	292681	Lockwasher	..	4	4
13	132131	Clamp	..	4	4
14	379988	Wire Harness	..	1	1
15	239503	Nut	..	4	4
16	1152571	Connector	..	1	1
17	236890	Grommet	..	2	2
18	69727	Grommet	..	1	1
19	137852	Strap Clamp	..	5	5
20	a 196506	Pressure Switch	..	..	1
21	a 16186	Fitting	..	..	1
22	b 16186	Fitting	..	..	1
23	b 196506	Pressure Switch	..	..	1
24	374044	Wire Harness	1	1	1
25	53125	Fuse (25 Amp) (25 Amp)	1	1	1
26	137852	Strap Clamp	10	10	10
27	379989	Wire Harness	1	1	1
28	176640	Bolt	2	2	2
29	146843	Light	1	1	1
30	164488	Clamp	2	2	2
31	292681	Lockwasher	2	2	2
32	239503	Nut	2	2	2
33	374047	Switch	1	1	1
34	1152571	Connector	2	2	2
35	323864	Strap Clamp	8	8	8
36	388049				
	292682	Lockwasher	4	4	4
37	292514	Capscrew	4	4	4
38	147700	Bracket	2	2	2

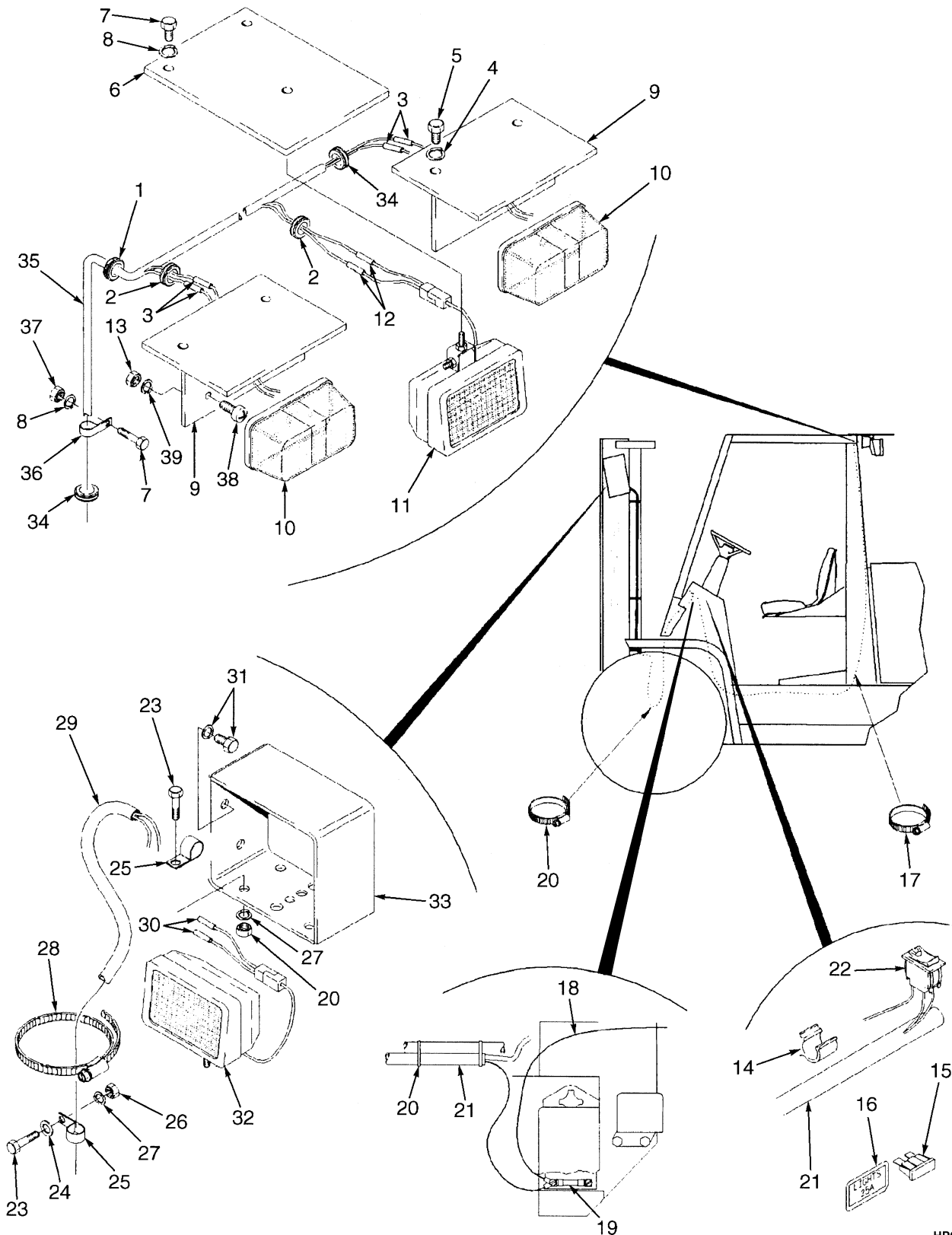
FOOTNOTES:

- a** Oil Clutch (Powershift Forward/Reverse Lever) **b** Powershift (Monotrol Pedal)

NOTES

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LIGHTS (FIGURE 11-13) (S/N F006A02256 →) (S/N F006D01501 →)



HP000120

LIGHTS

(S/N F006A02256 →) (S/N F006D01501 →)

KEY:**A: Work Lights****B: Work and Rear Drive Lights****C: Work, Rear Drive, and Stop/Tail Lights**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	b 236890	Grommet	..	2	2
1	cd 26283	Grommet	..	2	2
2	b 236890	Grommet	..	..	2
2	cd 26283	Grommet	..	..	2
3	1152571	Connector	..	..	4
4	292681	Lockwasher	..	..	4
5	316678	Screw	..	..	4
6	353379	Plate	..	1	1
7	316678	Screw	..	5	5
7	358674	Sealant	..	AR	AR
7	a 288394	Sealant	..	AR	AR
8	292681	Lockwasher	..	5	5
9	383141	Bracket	..	..	2
10	353479	Lamp	..	..	2
10	389792	Lens	..	..	1
10	177521	Bulb (12 Volt)	..	..	1
11	353478	Work Light	..	1	1
11	389793	Lamp	..	1	1
11	a 357934	Head/Work Light	..	1	1
11	1350992	Lens	..	1	1
12	1152571	Connector	..	2	2
13	15052	Nut	..	..	4
14	cd 241878	Clamp	2	2	2
15	cd 1300134	Fuse (25 Amp)	1	1	1
16	cd 1323595	Label (Light Fuse)	1	1	1
17	137852	Strap Clamp	..	5	5
18	b 374044	Wire Harness	1	1	1
19	b 53125	Fuse (25 Amp)	1	1	1
20	137852	Strap Clamp	10	10	10
21	b 383145	Wire Harness	1	1	1
21	cd 1324181	Wire Harness	1	1	1
22	374047	Switch	1	1	1
23	176640	Bolt	4	4	4
24	320157	Washer	2	2	2
25	164488	Clamp	4	4	4
26	239503	Nut	4	4	4
27	292681	Lockwasher	4	4	4
28	323864	Strap Clamp	6	6	6
29	b 353484	Wire Harness	2	2	2
29	cd 1324176	Wire Harness	2	2	2
30	1152571	Connector	4	4	4
31	292514	Capscrew	4	4	4
31	388049	Lockwasher	4	4	4
	292682	Lockwasher	4	4	4

LIGHTS

(S/N F006A02256 →) (S/N F006D01501 →)

KEY:

A: Work Lights

B: Work and Rear Drive Lights

C: Work, Rear Drive, and Stop/Tail Lights

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
32	353478	Work Light	2	2	2
32	389793	Lamp	2	2	2
32	a 357934	Head/Work Light	2	2	2
32	1350992	Lens	1	1	1
33	389136	Bracket Wldmt	2	2	2
34	69727	Grommet	..	1	1
35	cd 1324182	Wire Harness	..	1	1
35	b 383146	Wire Harness	..	1	1
36	113341	Clamp	..	3	3
37	239503	Nut	..	3	3
38	1300742	Screw	..	..	4
39	15152	Lockwasher	..	..	4

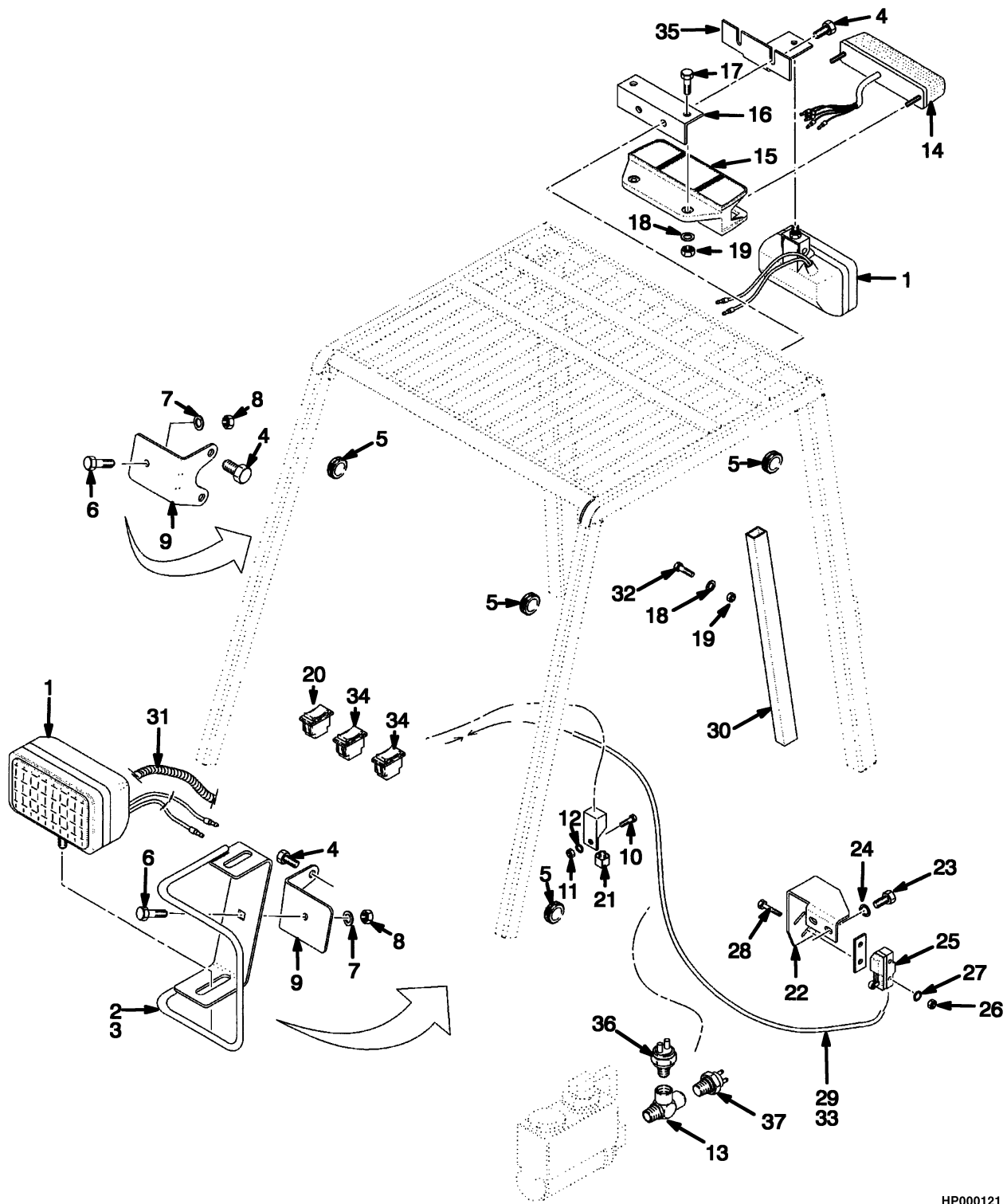
FOOTNOTES:

a Optional**b** → S/N F006A03790**c** S/N F006A03791 →**d** S/N F006D01501 →

NOTES

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WORK LIGHT (FIGURE 11-14) F006A OPTION (11/1998 →)

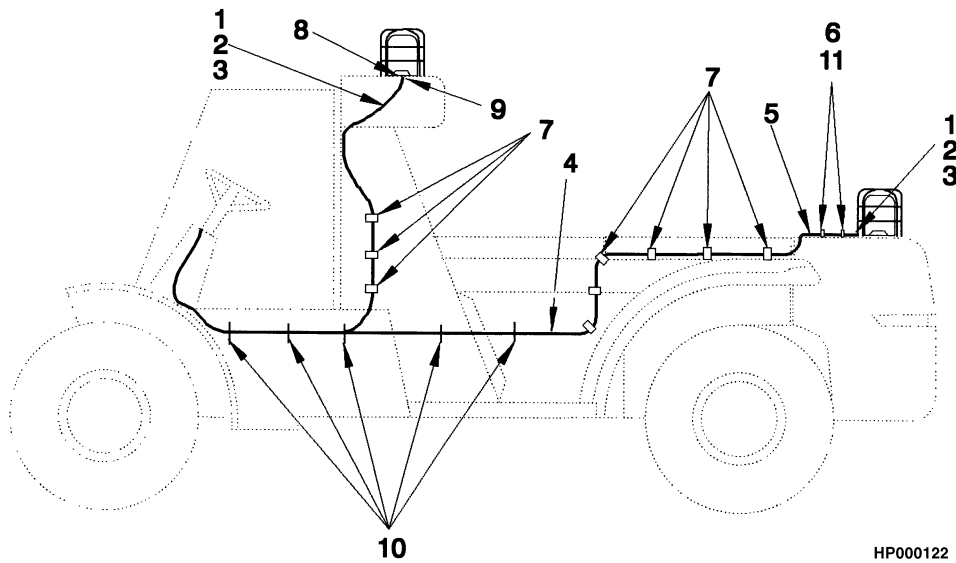


HP000121

WORK LIGHT
F006A OPTION (11/1998 →)**KEY:****A: Forward/Reverse Lever****B: Monotrol Pedal**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1354119	Headlight (Square)	3	3
2	1375172	Bracket Wldmt (LH)	1	1
3	1375171	Bracket Wldmt (RH)	1	1
4	316678	Screw	8	8
5	1367645	Grommet	6	6
6	136681	Capscrew	6	6
7	296418	Washer	2	2
8	316835	Nut	10	10
9	878854	Plate	2	2
10	302246	Capscrew	1	1
11	292668	Nut	1	1
12	292679	Washer	1	1
13	16186	Fitting	1	1
14	878835	Brake/Backup Light (Rear) (Stop, Turn and Rear Lights)	2	2
15	1450293	Bracket	2	2
16	878842	Bracket	2	2
17	136681	Capscrew	4	4
18	320157	Washer	10	10
19	316835	Nut	8	8
20	1382302	Switch (Lights - High Beam)	1	1
21	1458750	Relay (12 Volt)	1	1
22	878977	Bracket	1	..
23	287817	Capscrew	2	..
24	292680	Washer	2	..
25	370868	Switch (Park Brake)	1	..
26	15049	Nut	2	..
27	138573	Washer	2	..
28	123991	Screw	2	..
29	878918	Wire Harness (Microswitch)	1	..
30	878855	Cover	2	2
31	878959	Hose Guard	AR	AR
32	214364	Capscrew	4	4
33	878968	Wire Harness (Monotrol)	..	1
34	1382303	Switch	2	2
35	878843	Bracket	1	1
36	1458749	Pressure Switch	..	1
37	1458749	Pressure Switch	1	..

STROBE LIGHT WIRING HARNESS (FIGURE 11-15)



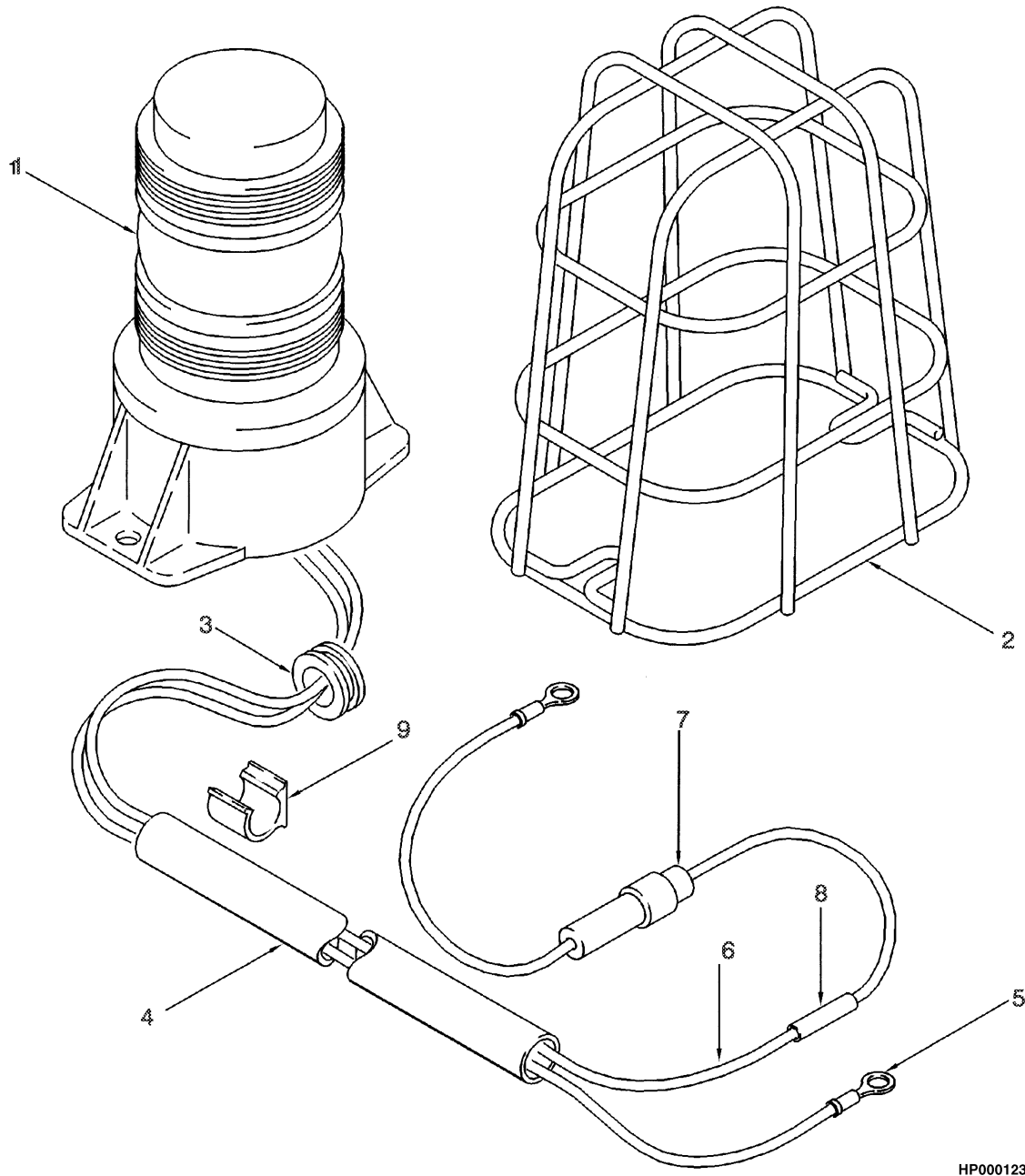
HP000122

ITEM	PART NO.	DESCRIPTION	QTY
1	1316497	Wire (Red)	1
2	1316498	Wire (Black)	1
3	1152830	Connector	3
4	1321695	Conduit	1
5	1316478	Tube	1
6	115155	Clamp	3
7	241878	Clamp	15
8	145641	Locknut (Prevailing Torque)	2
8	16816	Capscrew	2
9	216735	Grommet	1
10	137852	Strap Clamp	20
11	133469	Capscrew	3
11	15154	Lockwasher	3

NOTES

[illegible]

STROBE LIGHT (FIGURE 11-16) MEDIUM INTENSITY



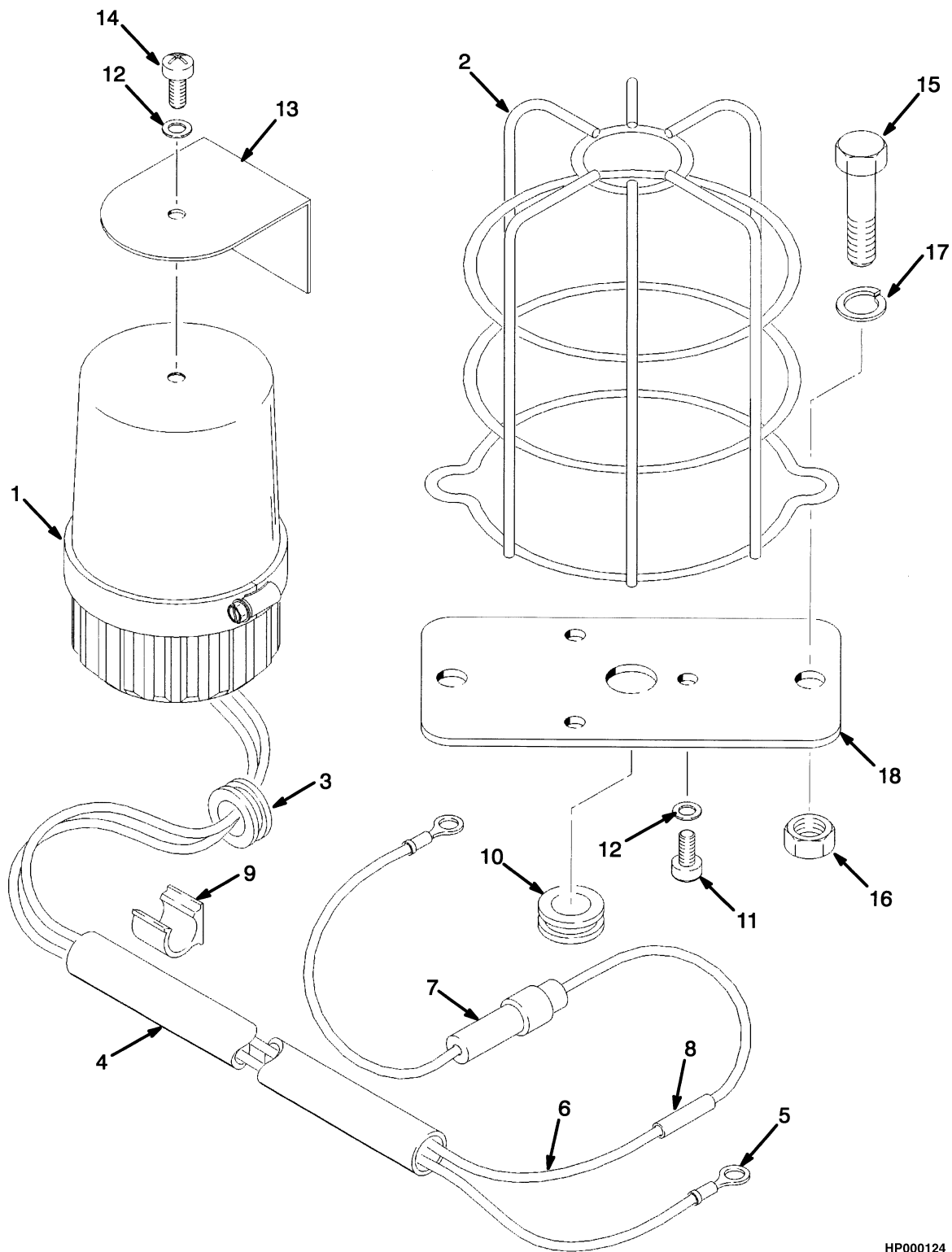
HP000123

**STROBE LIGHT
MEDIUM INTENSITY****KEY:****A: Tomar****B: Speaker**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a 1307508	Strobe Light	1	..
1	1309775	Strobe Light Lamp	1	..
1	a 1309776	Lens (Amber)	1	..
1	c 1317486	Strobe Light	..	1
1	c 1317492	Strobe Light	1	..
1	1326356	Fuse	..	1
1	c 1326357	Lens	1	..
1	15855	O-Ring	3	..
1	227132	Screw	3	..
1	b 3013632	Lens	1	..
1	3015705	Bulb	..	1
1	a 3015706	Lens	..	1
1	c 3015707	Lens	..	1
1	b 3015708	Lens	..	1
1	a 3018106	Strobe Light	..	1
1	39359	O-Ring	1	..
2	1302024	Guard (Strobe Light)	1	..
2	3015709	Guard	..	1
3	328389	Grommet	1	1
4	275494	Conduit	1	1
5	1306578	Cable Assy	1	1
6	1306579	Cable Assy	1	1
7	335850	Wire	1	1
8	1152830	Connector	1	1
9	241878	Clamp	3	3

FOOTNOTES:**a** Amber**b** Blue**c** Red

STROBE LIGHT (FIGURE 11-17) HIGH INTENSITY



HP000124

**STROBE LIGHT
HIGH INTENSITY**

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1316485	Strobe Light	1
1	c 1317485	Strobe Light	1
1	1322390	Tube Assy	1
1	1322392	Printed Circuit Board	1
1	1322393	Fuse (4 Amp)	1
1	c 1326358	Lens	1
1	a 1326366	Lens	1
1	b 1331216	Dome Light	1
2	1312465	Guard	1
3	328389	Grommet	1
4	275494	Conduit	1
5	1306578	Cable Assy	1
6	1306579	Cable Assy	1
7	335850	Wire	1
8	1152830	Connector	1
9	241878	Clamp	3
10	133484	Grommet	1
11	227098	Screw	3
12	15930	Lockwasher	4
13	1316480	Shield	1
14	16719	Screw	1
15	16828	Capscrew	2
16	222667	Nut	2
17	15156	Lockwasher	2
18	1316479	Mounting Plate	1

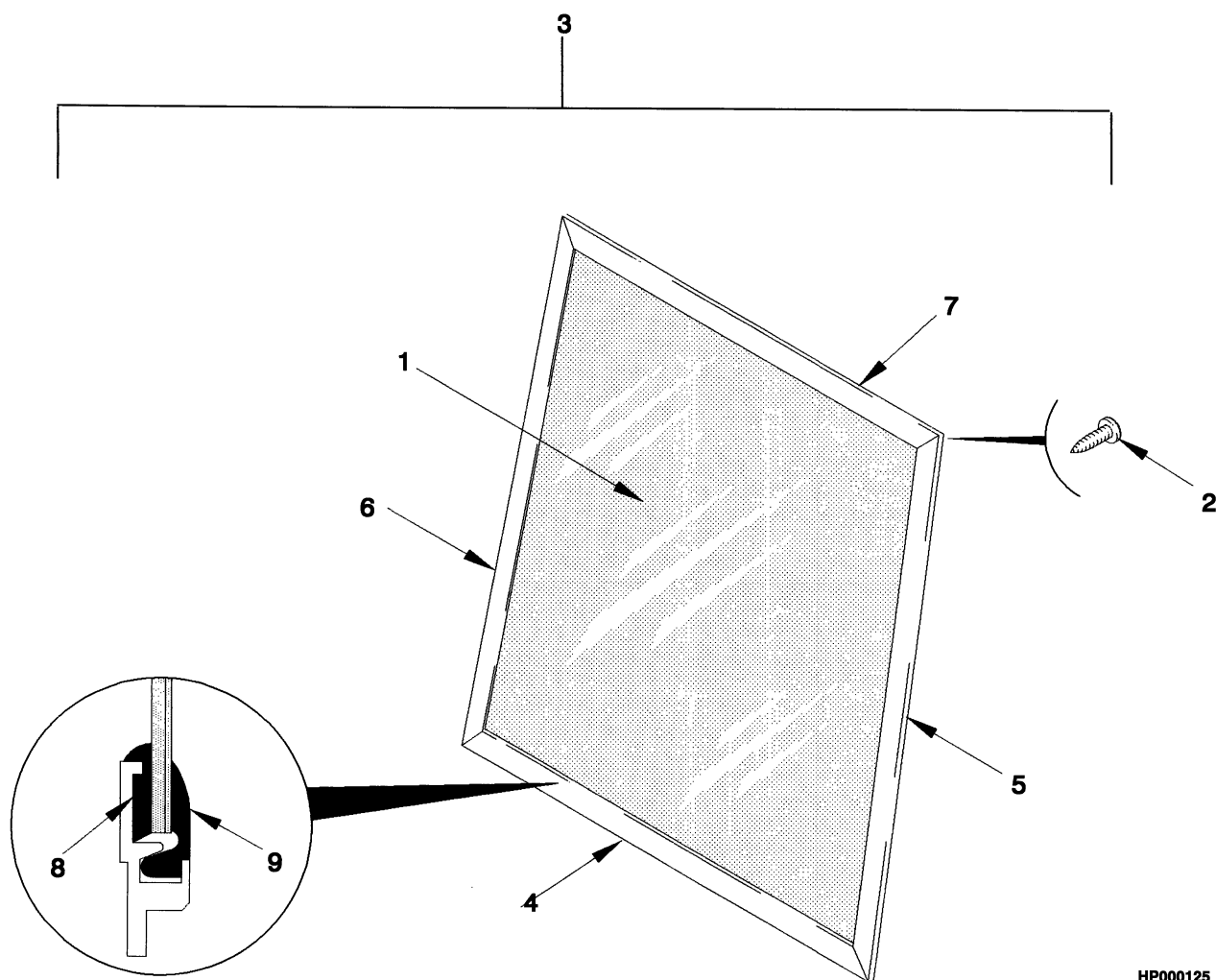
FOOTNOTES:

a Amber
b Blue

c Red

WINDOW (FIGURE 11-18)

FRONT (S/N F006A03758 →) (S/N F006D01501 →)



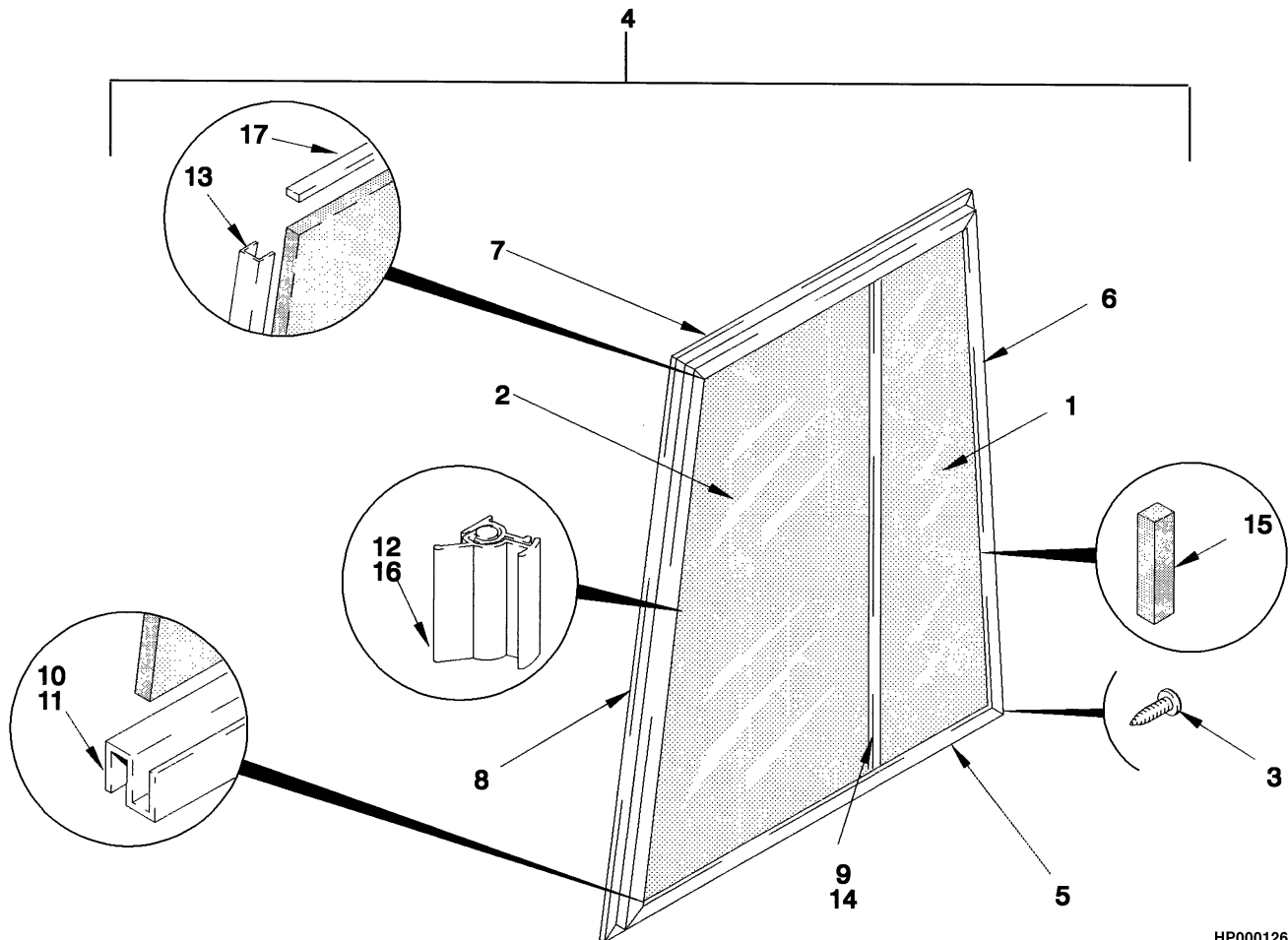
HP000125

WINDOW**FRONT (S/N F006A03758 →) (S/N F006D01501 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	1319363	Window	1
1	1375978	Front Window (Front) (Front) (☞ Figure 11-20).....	1
2	296456	Screw	4
3	1333594	Kit-Repair Window	1
4		Lower Frame	1
5		Frame (RH)	1
6		Frame (LH)	1
7		Upper Frame	1
8		Seal	1
9	1324200	Seal	1

WINDOW (FIGURE 11-19)

SIDE (S/N F006D01501 →) (S/N F006A03758 →)



HP000126

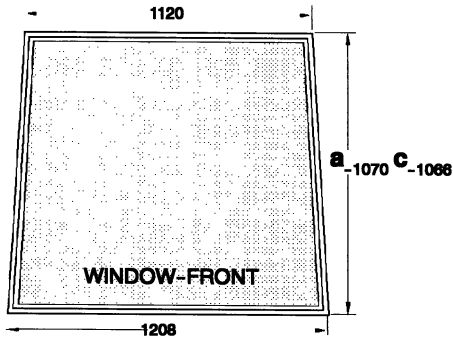
WINDOW

SIDE (S/N F006D01501 →) (S/N F006A03758 →)

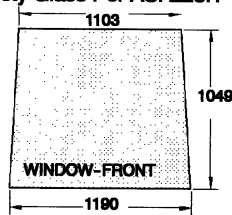
KEY:**A:** Left Hand**B:** Right Hand

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1319367	Window (LH)	1	..
	1319368	Window (RH)	..	1
1	1324206	Glass (Stationary) (☞Figure 11-20).....	1	1
1	1324090	Adhesive	AR	AR
2	1375981	Window (Sliding) (☞Figure 11-20).....	1	1
3	296456	Screw	8	8
4	1333598	Kit-Repair Window	1	..
4	1333599	Kit-Repair Window	..	1
5		Lower Frame	..	1
5		Lower Frame	1	..
6		Rear Frame	..	1
6		Rear Frame	1	..
7		Upper Frame	..	1
7		Upper Frame	1	..
8		Front Frame	..	1
8		Front Frame	1	..
9		Support	1	1
9		Adhesive	AR	AR
10		Rail	1	1
11		Filler	1	1
12		Latch	1	1
13		Rail	1	1
14		Seal	1	1
15		Stop	2	2
16		Adhesive	AR	AR
17		Lining	1	1

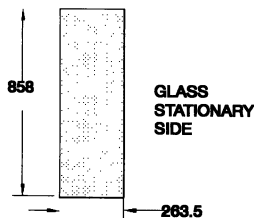
CAB GLASS (FIGURE 11-20)



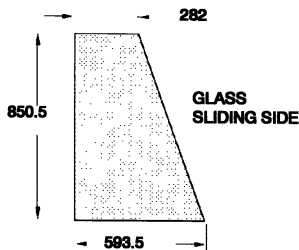
- a** - Hyster P/N 3047355
Clear Laminated Safety Glass Per SAE J673B & J674A 5.0 mm Nom Thickness
- d** - Hyster P/N 1375978
Clear Laminated Safety Glass Per ANSI Z26.1 5.9-7.5 mm Thick



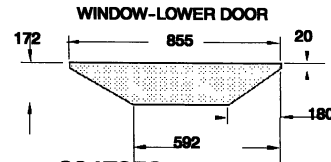
- bc** - Hyster P/N 1319363
Clear Laminated Safety Glass
Per ANSI Z26.1
6.5 MM Thick



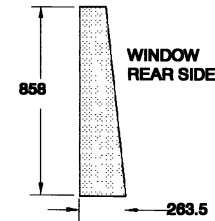
- b** - Hyster P/N 1324206
Clear Laminated Or Tempered Safety
Glass Per ANSI Z26.1
6 MM Thick



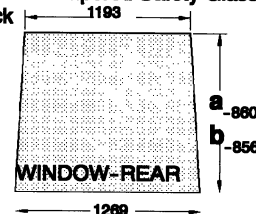
- bc** - Hyster P/N 1324207
Clear Laminated Or Tempered Safety Glass Per ANSI
Z26.1 6MM Thick
- d** - Hyster P/N 1375981 & 1375982
Clear Laminated Or Tempered Safety Glass Per ANSI
Z26.1 AS2
5.6/6.2 MM Thick



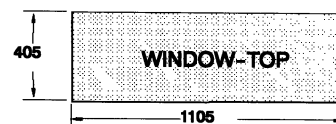
- Hyster P/N 3047356
Clear Laminated Or Tempered Safety Glass
Per ANSI Z26.1
5.6-6.8 MM Thick



- a** - Hyster P/N 3047357
Clear Laminated Or Tempered Safety Glass Per SAE J673B
& J674A
5.5-6.4 Nom Thickness
- b** - Hyster P/N 1319364
Clear Laminated Or Tempered Safety Glass Per ANSI Z26.1
5.6-6.8 MM Thick



- a** - Hyster P/N 3047358
Clear Laminated Or Tempered Safety Glass Per SAE J673B
& J674A
5.5-6.4 Nom Thickness
- b** - Hyster P/N 1319365
Clear Laminated Or Tempered Safety Glass Per ANSI Z26.1
5.6-6.8 MM Thick



- Hyster P/N 1321868 Clear Lexan MR5004
6 MM Thick Or Equivalent

- a** Last Used On S/N F6A-3757
- b** First Used On S/N F6A-3758
- c** Last Used On S/N F6A-8145
- d** First Used On S/N F6A-8146

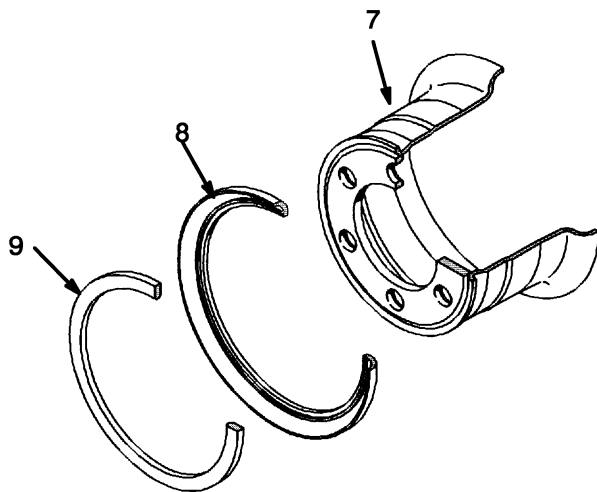
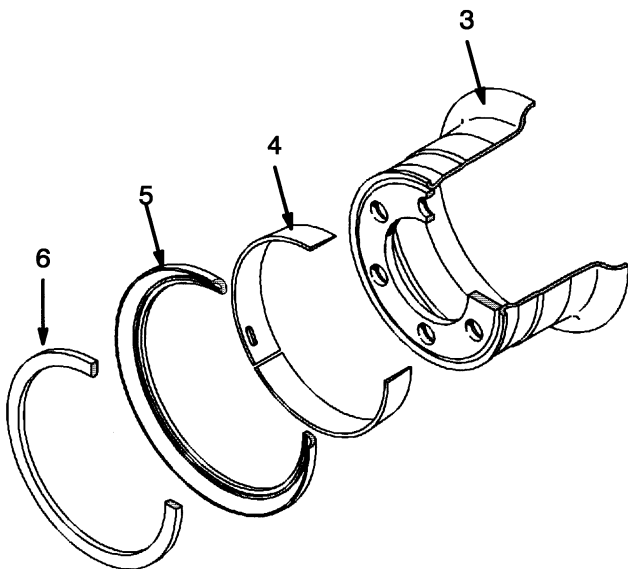
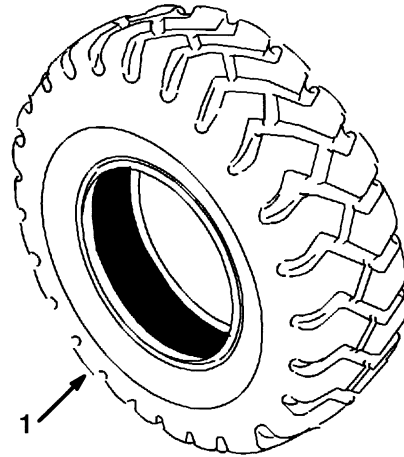
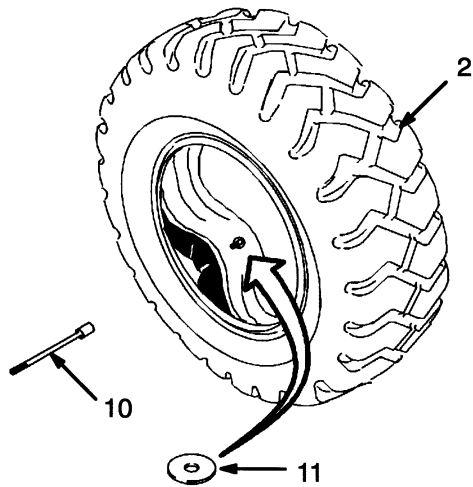
HP000127

CAB GLASS

ITEM	PART NO.	DESCRIPTION	QTY
1	a 3047355	Window	1
2	d 1375978	Front Window (Front)	1
3	bc 1319363	Window	1
4	c 1324206	Glass	1
5	bc 1324207	Glass	1
6	d 1375981	Window	1
6	d 1375982	Window	1
7	3047356	Window	1
8	a 3047357	Glass	1
9	c 1319364	Glass	1
10	a 3047358	Glass	1
11	c 1319365	Glass	1
12	1321868	Window	1

FOOTNOTES:**a** → S/N F006A03757**b** → S/N F006A08145**c** S/N F006A03758 →**d** S/N F006A08146 →

TIRE AND WHEEL (FIGURE 11-21) DRIVE



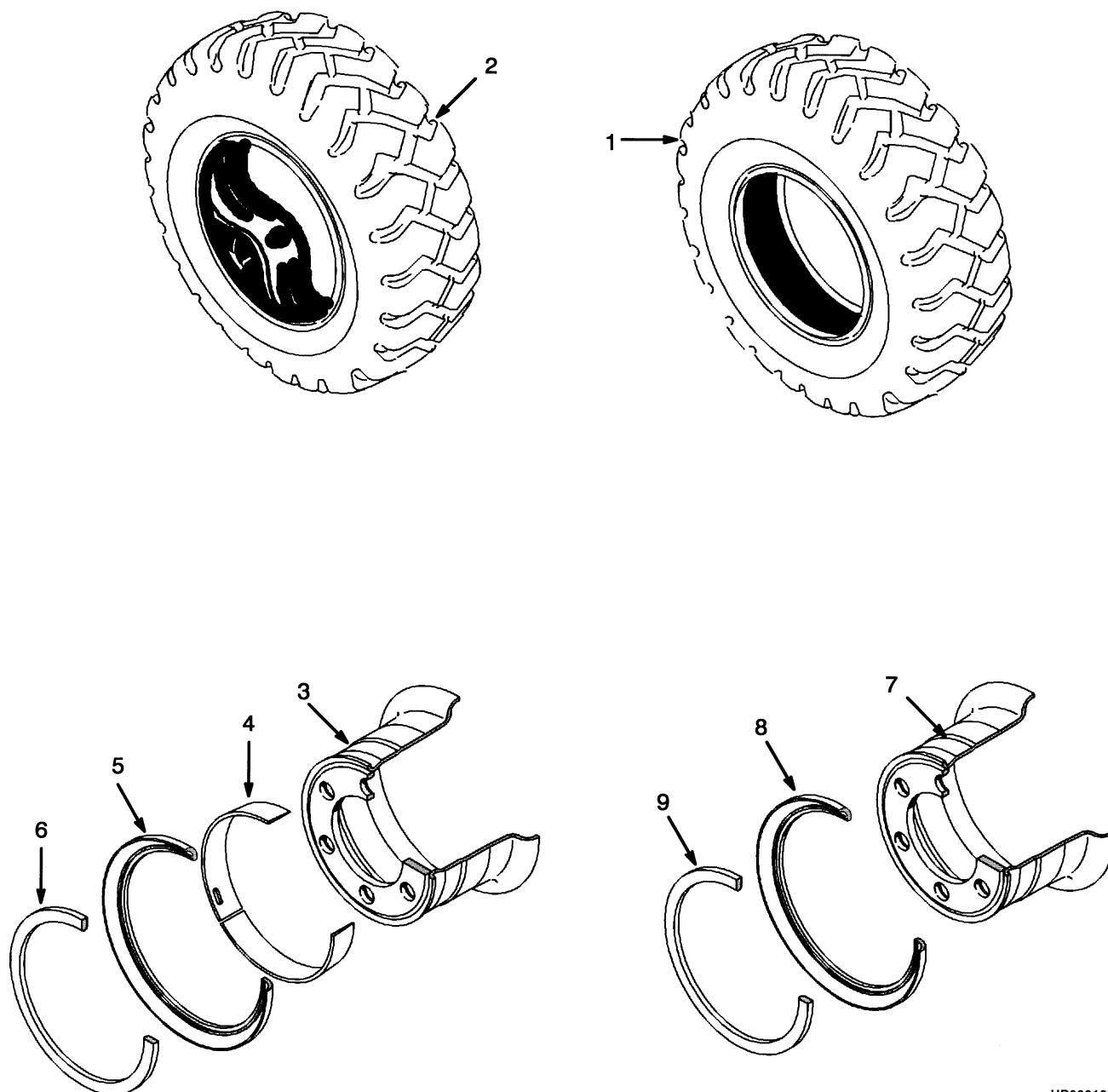
HP000128

**TIRE AND WHEEL
DRIVE****KEY:****A:** H135XL (10 Ply 7.50 x 15)**B:** H135XL (12 Ply 7.50 x 15)**C:** H135-155XL (12 Ply 8.25 x 15)**D:** H135-155XL (Solid 8.25 x 15)

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
1	c 237050	Tire	..	..	..	1
1	b 336093	Tire	..	..	..	1
2	130612	Tire Assembly	1	..	..	..
2	130617	Tire Assembly	..	1	..	..
2	130616	Tire Assembly	..	..	1	..
2	68498	Tire w/Flap	1	..	..	..
2	129848	Tire w/Flap	..	1	..	..
2	129846	Tire w/Flap (With Flap)	..	..	1	..
2	11280	Tube	1	1	..	..
2	25722	Tube	..	..	1	..
3	a 340292	Wheel Assy	..	..	..	1
3	340292	Wheel Assy	..	..	1	..
3	340293	Wheel Assy	1	1	..	..
4	806557	Shoulder Ring	1	1	1	1
5	980541	Wheel Side Ring	1	1	1	1
6	980542	Wheel Lock Ring	1	1	1	1
7	350060	Wheel Assy	..	..	..	1
8	980541	Wheel Side Ring	..	..	..	1
9	980542	Wheel Lock Ring	..	..	..	1
10	1303417 49189	Extension (Valve Stem)	1	1	1	..
11	1376007	Washer (Valve Stem)	1	1	1	..

FOOTNOTES:**a** Optional**c** Standard Hardness**b** Soft Ride**NOTE:** Part Number Stamped on Wheel

TIRE AND WHEEL (FIGURE 11-22) STEERING



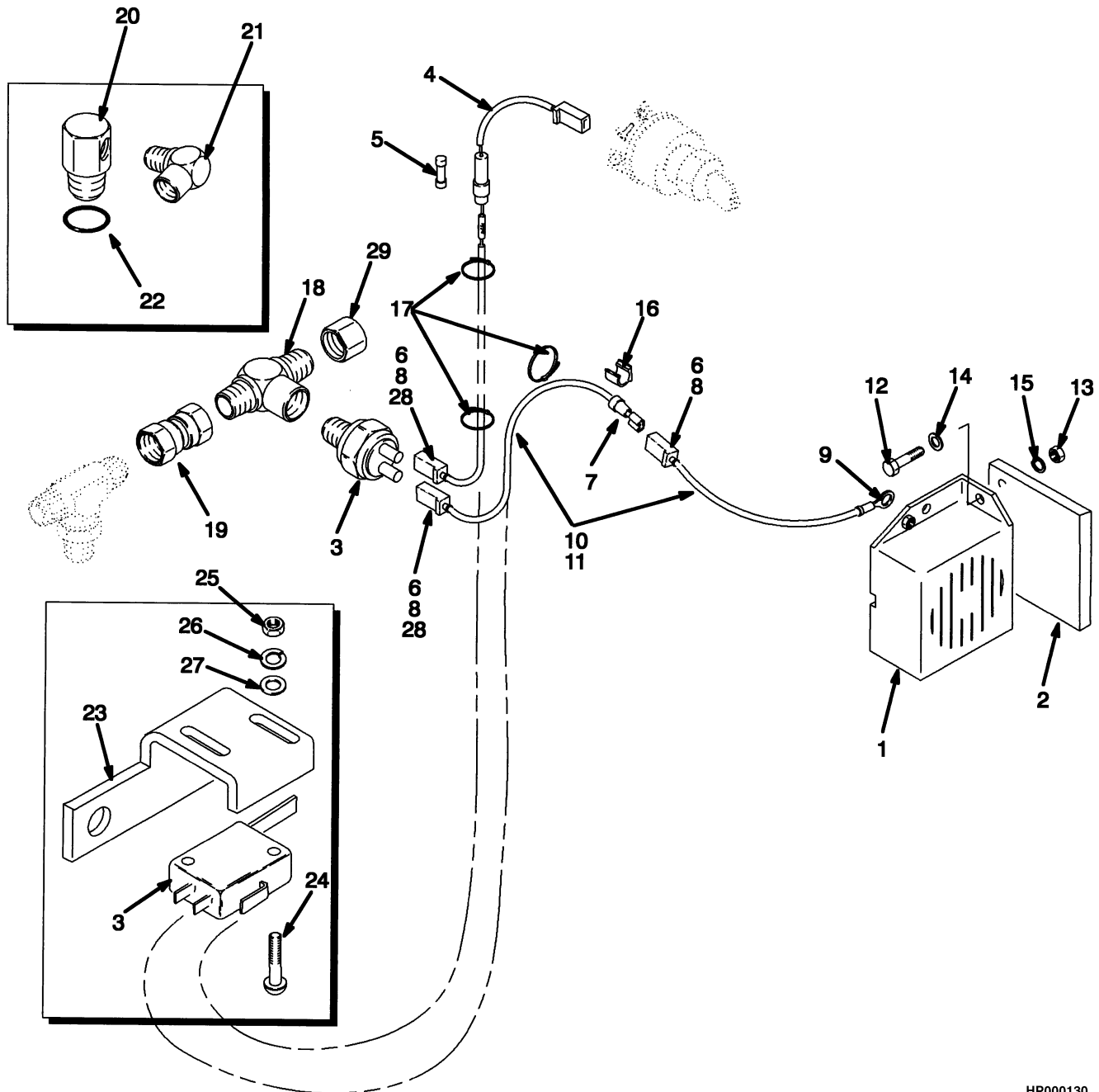
HP000129

KEY:**A:** H135XL (10 Ply 7.50 x 15)**B:** H135XL (12 Ply 7.50 x 15)**C:** H135-155XL (12 Ply 8.25 x 15)**D:** H135-155XL (Solid 8.25 x 15)

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
1	c 237050	Tire	..	..	..	1
1	b 336093	Tire	..	..	..	1
2	130612	Tire Assembly	1	..	..	..
2	130617	Tire Assembly	..	1	..	..
2	130616	Tire Assembly	..	..	1	..
2	68498	Tire w/Flap	1	..	..	..
2	129848	Tire w/Flap	..	1	..	..
2	129846	Tire w/Flap (With Flap)	..	..	1	..
2	11280	Tube	1	1	..	..
2	25722	Tube	..	..	1	..
3	a 237042	Wheel Assy	..	..	..	1
3	237042	Wheel Assy	..	..	1	..
3	350058	Wheel Assy	1	1	..	..
4	806557	Shoulder Ring	1	1	1	1
5	980541	Wheel Side Ring	1	1	1	1
6	980542	Wheel Lock Ring	1	1	1	1
7	317498	Wheel Assy	..	..	..	1
8	980541	Wheel Side Ring	..	..	..	1
9	980542	Wheel Lock Ring	..	..	..	1

FOOTNOTES:**a** Optional**b** Soft Ride**c** Standard Hardness**NOTE:** Part Number Stamped on Wheel

BACK-UP ALARM (FIGURE 11-23) POWERSHIFT

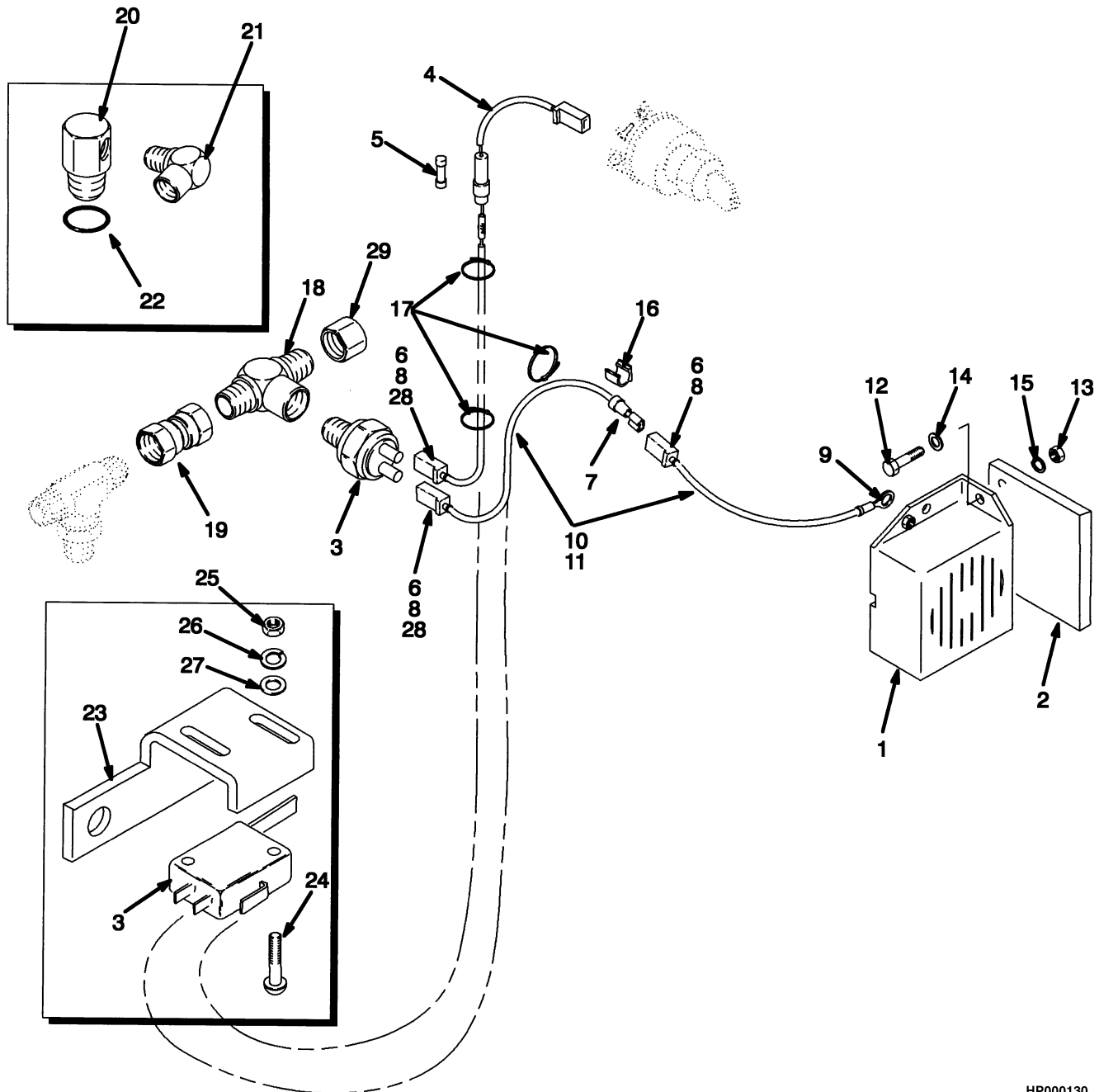


HP000130

**BACK-UP ALARM
POWERSHIFT****KEY:****A: Monotrol Pedal****B: Forward/Reverse Lever**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1339947	Back-Up Alarm (82-102 dbA)	1	1
1	1350733	Back-Up Alarm (87 dbA)	1	1
1	1350734	Back-Up Alarm (97 dbA)	1	1
1	1350735	Back-Up Alarm (102 dbA)	1	1
1	1350736	Back-Up Alarm (107 dbA)	1	1
2	1339939	Bracket	1	1
3	1301299	Pressure Switch (Low Pressure)	1	1
4	1339941	Wire	1	1
5	826004	Connector	1	1
6	134812	Terminal	3	3
7	129892	Terminal	1	1
8	1301720	Connector Body	3	3
9	129887	E-Ring	1	1
10	1355816	Conduit (174.60 in.)	1	1
11	1355815	Wire (192.64 in.)	1	1
12	18461	Capscrew	2	2
13	15004	Nut	2	2
14	15127	Washer	2	2
15	15154	Lockwasher	2	2
16	279739	Clamp	10	10
17	137852	Strap Clamp	10	10
18	14645	Fitting	1	1
19	1352525	Fitting	1	..
20	1352546	Adapter	..	1
21	16151	Fitting	..	1
22	16482	O-Ring	..	1
23	1355813	Bracket	1	1
24	220428	Screw	2	2
25	16865	Nut	2	2
26	53162	Lockwasher	2	2
27	197064	Washer	2	2
28	214517	Terminal	2	2
29	16923	Nut	1	1

BACK-UP ALARM (FIGURE 11-24) OIL CLUTCH (→ S/N F006D03779)



HP000130

BACK-UP ALARM
OIL CLUTCH (→ S/N F006D03779)

ITEM	PART NO.	DESCRIPTION	QTY
1	1339947	Back-Up Alarm (82-102 dbA)	1
1	1350733	Back-Up Alarm (87 dbA)	1
1	1350734	Back-Up Alarm (97 dbA)	1
1	1350735	Back-Up Alarm (102 dbA)	1
1	1350736	Back-Up Alarm (107 dbA)	1
2	1339939	Bracket	1
3	1343636	Switch	1
4	1339941	Wire	1
5	826004	Connector	1
6	134812	Terminal	3
7	129892	Terminal	1
8	1301720	Connector Body	3
9	129887	E-Ring	1
10	1355816	Conduit (174.60 in.)	1
11	1355815	Wire (192.64 in.)	1
12	18461	Capscrew	2
13	15004	Nut	2
14	15127	Washer	2
15	15154	Lockwasher	2
16	279739	Clamp	10
17	137852	Strap Clamp	10
18	14645	Fitting	1
19	1352525	Fitting	1
20	1352546	Adapter	1
21	16151	Fitting	1
22	16482	O-Ring	1
23	1355813	Bracket	1
24	220428	Screw	2
25	16865	Nut	2
26	53162	Lockwasher	2
27	197064	Washer	2
28	214517	Terminal	2
29	16923	Nut	1

[illegible]

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11280	11-59	2		10-19	16	15024	3-57	18	15055	1-15	20
	11-61	2	14591	5-33	11		3-59	9		1-25	4
11286	5-49	28		5-34	54	15025	5-13	20		2-21	6
11287	5-49	30	14595	8-51	26		5-15	23		2-25	6
12815	2-21	42	14645	11-63	18		5-39	15		2-135	4
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12821	4-9	27		2-66	36		5-43	34		3-17	4
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	4-23	36		2-73	40		7-9	33		3-37	23
12823	11-17	25		2-85	40	15026	2-169	32		3-67	20
12828	11-14	41		2-89	40		2-171	32		3-71	34
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12840	11-13	26	15002	3-57	1		5-15		15056	2-13	18
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	3-35	27		5-13	23		8-23	5		5-11	5
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	4-103	20	369549	8-41	32		2-89	19	370728	4-101	21
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368137	10-35		369550	8-41	33	370250	1-21	12		4-103	20
368139	10-23	21		8-57	13	370251	1-21	12	370730	4-98	10
	10-27	21	369552	8-29	23	370252	1-21	12		4-107	24
368140	10-23	21		8-35	29	370253	1-21	12		4-109	13
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368231	5-39	19	369555	8-29	24	370256	1-21	12		4-120	52
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369128	2-13	13	369561	3-17	28	370276	1-17	19	371666	6-3	8
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372004	3-5	33		2-171	9	374548	7-13	2		2-65	20
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372006	2-5	7	373950	5-20	36		7-17	3	375560	2-61	20
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372008	3-5	9	374004	1-17	22	374703	3-37	14		2-69	9
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372343	10-23	4	374280	2-149	1	374922	3-65	8		2-69	7
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1383227	2-29	31	1383327	4-33		1386179	2-121	22	1386979	5-23	2
1383228	2-29	35	1383331	4-19	13		2-125	22		5-25	2
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1383253	2-17	6	1383799	6-15	6		2-85	30		5-25	12
1383254	4-19	32	1383904	2-93	10		2-89	30	1387235	5-29	11
1383255	4-19	32		2-97	10		2-93	22		5-31	11
1383257	2-93	30	1383905	2-79			2-97	22	1387250	2-21	1
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1383265	3-39	17	1384429	6-9	5		2-83	4	1388381	3-97	13
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1383269	4-41	1	1385673	3-17	31		2-83	5	1388383	3-97	15
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1389102	2-93	2		2-57	7		3-55	16	1451625	2-145	10
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1453315	3-101	30	1455310	3-55	1	1456727	3-101	5	1459456	2-155	11
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1454596	2-73	1	1456525	3-91	16		2-135	1	1460384	2-81	10
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[illegible]

